

ATTACHMENT A-4:

Radius Map

Kramer, H & Co. - 438

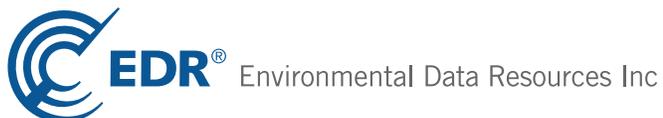
1 Chapman Way

El Segundo, CA 90245

Inquiry Number: 3314365.38s

May 02, 2012

The EDR Radius Map™ Report with GeoCheck®



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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1 CHAPMAN WAY
EL SEGUNDO, CA 90245

COORDINATES

Latitude (North): 33.9080000 - 33° 54' 28.80"
Longitude (West): 118.3862000 - 118° 23' 10.32"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 371842.0
UTM Y (Meters): 3752626.0
Elevation: 96 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33118-H4 VENICE, CA
Most Recent Revision: 1981

East Map: 33118-H3 INGLEWOOD, CA
Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
KRAMER H & CO - CALIFORNIA DIV NO 1 CHAPMAN WAY EL SEGUNDO, CA 90245	HAZNET	N/A
H KRAMER & CO NO 1 CHAPMAN WAY EL SEGUNDO CA 90245 EL SEGUNDO, CA 90245	ICIS	N/A

EXECUTIVE SUMMARY

H KRAMER & CO NO 1 CHAPMAN WAY EL SEGUNDO, CA 90245	CERC-NFRAP RCRA-SQG FINDS HIST CORTESE HAZNET	CAD008260267
KRAMER & CO. & HARSHAW CHEMICAL 1 CHAPMAN WAY EL SEGUNDO, CA 90245	Cortese SLIC Facility Status: Open - Verification Monitoring LA Co. Site Mitigation ENF ENVIROSTOR Status: Refer: Other Agency	N/A
KRAMER & CO. & HARSHAW CHEM. 1 CHAPMAN WAY EL SEGUNDO, CA 90245	WDS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA generators list

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

HIST Cal-Sites..... Historical Calsites Database

SCH..... School Property Evaluation Program

Toxic Pits..... Toxic Pits Cleanup Act Sites

AOCONCERN..... San Gabriel Valley Areas of Concern

CDL..... Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database

Local Land Records

LIENS 2..... CERCLA Lien Information

EXECUTIVE SUMMARY

LUCIS..... Land Use Control Information System
LIENS..... Environmental Liens Listing
DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
CHMIRS..... California Hazardous Material Incident Report System
LDS..... Land Disposal Sites Listing
MCS..... Military Cleanup Sites Listing

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
CA BOND EXP. PLAN..... Bond Expenditure Plan
NPDES..... NPDES Permits Listing
DRYCLEANERS..... Cleaner Facilities
LOS ANGELES CO. HMS..... HMS: Street Number List
WIP..... Well Investigation Program Case List
HAZNET..... Facility and Manifest Data
EMI..... Emissions Inventory Data
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
PROC..... Certified Processors Database
HWT..... Registered Hazardous Waste Transporter Database
COAL ASH DOE..... Sleam-Electric Plan Operation Data
FINANCIAL ASSURANCE..... Financial Assurance Information Listing
MWMP..... Medical Waste Management Program Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations... EDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 12/27/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HONEYWELL INTL INC</i>	<i>850 S SEPULVEDA BLVD</i>	<i>WSW 1/4 - 1/2 (0.454 mi.)</i>	<i>N62</i>	<i>164</i>

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HUGHES AIRCRAFT CO SCG</i>	<i>1500 ROSECRANS BLVD</i>	<i>S 1/4 - 1/2 (0.308 mi.)</i>	<i>56</i>	<i>133</i>

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RAYTHEON COMPANY, SPACE AND AI	2000 E. EL SEGUNDO BLVD	NW 1/2 - 1 (0.688 mi.)	Q72	201

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 11/10/2011 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ELCO CORPORATION	2250 PARK PLACE	SSE 1/8 - 1/4 (0.244 mi.)	52	118

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/10/2011 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
THE AEROSPACE CORPORATION	2350 EAST EL SEGUNDO BL	NNE 1/8 - 1/4 (0.157 mi.)	I30	67

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/10/2011 has revealed that there are

EXECUTIVE SUMMARY

20 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RAYTHEON SYSTEMS CO</i>	<i>800 APOLLO ST</i>	<i>S 0 - 1/8 (0.097 mi.)</i>	<i>E16</i>	<i>40</i>
<i>RAYTHEON COMPANY, ELECTRONIC S</i>	<i>2175 PARK PLACE</i>	<i>S 0 - 1/8 (0.114 mi.)</i>	<i>E20</i>	<i>48</i>
<i>ELECTRONIC DATA CENTER E D S</i>	<i>2121 E PARK PL</i>	<i>SSW 0 - 1/8 (0.114 mi.)</i>	<i>G21</i>	<i>52</i>
<i>FARR COMPANY</i>	<i>2201 PARK PL</i>	<i>SSE 1/8 - 1/4 (0.141 mi.)</i>	<i>H27</i>	<i>62</i>
<i>TRW INC</i>	<i>2200 EAST PARK PLACE</i>	<i>SSE 1/8 - 1/4 (0.145 mi.)</i>	<i>H28</i>	<i>65</i>
<i>TRW INC</i>	<i>831 S NASH STREET</i>	<i>SSW 1/8 - 1/4 (0.169 mi.)</i>	<i>G37</i>	<i>82</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>XEROX CORP</i>	<i>401 CORAL CIRCLE</i>	<i>NNE 0 - 1/8 (0.057 mi.)</i>	<i>C9</i>	<i>22</i>
<i>HARCO</i>	<i>557 SOUTH DOUGLAS ST</i>	<i>E 0 - 1/8 (0.073 mi.)</i>	<i>B10</i>	<i>25</i>
<i>AMETEK MICROELECTRONICS</i>	<i>605 S DOUGLAS ST</i>	<i>E 0 - 1/8 (0.083 mi.)</i>	<i>D11</i>	<i>27</i>
<i>EDELBROCK, INC</i>	<i>411 CORAL CIRCLE</i>	<i>NNE 0 - 1/8 (0.087 mi.)</i>	<i>C14</i>	<i>35</i>
<i>POLAROID COPY SERVICE</i>	<i>625 S DOUGLAS ST</i>	<i>ESE 0 - 1/8 (0.096 mi.)</i>	<i>D15</i>	<i>37</i>
<i>EURO-CAL PRECISION PRODS</i>	<i>365 CORAL CIR</i>	<i>NNE 1/8 - 1/4 (0.128 mi.)</i>	<i>24</i>	<i>57</i>
<i>HUGHES AIRCRAFT CO EDSG</i>	<i>841 APOLLO ST</i>	<i>S 1/8 - 1/4 (0.132 mi.)</i>	<i>E25</i>	<i>59</i>
<i>TRW INC</i>	<i>840 APOLLO STREET</i>	<i>S 1/8 - 1/4 (0.133 mi.)</i>	<i>E26</i>	<i>60</i>
<i>BEATRICE FOODS CO EE TECH DIV</i>	<i>2352 UTAH AVE</i>	<i>ENE 1/8 - 1/4 (0.161 mi.)</i>	<i>F32</i>	<i>72</i>
<i>VACCO INDUSTRIES- EL SEGUNDO</i>	<i>2338 ALASKA AVE</i>	<i>E 1/8 - 1/4 (0.164 mi.)</i>	<i>J34</i>	<i>73</i>
<i>THE AEROSPACE CORPORATION: BLD</i>	<i>325 S. DOUGLAS ST.</i>	<i>NNE 1/8 - 1/4 (0.189 mi.)</i>	<i>I41</i>	<i>86</i>
<i>TRW INC</i>	<i>621 HAWAII STREET</i>	<i>ESE 1/8 - 1/4 (0.206 mi.)</i>	<i>J43</i>	<i>90</i>
<i>THE AEROSPACE CORP</i>	<i>277 CORAL CR</i>	<i>NNE 1/8 - 1/4 (0.219 mi.)</i>	<i>K44</i>	<i>91</i>
<i>SPERRY FLIGHT SYSTEMS</i>	<i>645 HAWAII ST</i>	<i>ESE 1/8 - 1/4 (0.231 mi.)</i>	<i>L47</i>	<i>102</i>

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 03/14/2012 has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>CHEVRON LAND AND DEVELOPMENT</i>	<i>MARINE AVENUE AND SEPULSW 1/2 - 1 (0.929 mi.)</i>		<i>75</i>	<i>256</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ELCO CORPORATION</i>	<i>2250 PARK PLACE</i>	<i>SSE 1/8 - 1/4 (0.244 mi.)</i>	<i>52</i>	<i>118</i>

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to,

EXECUTIVE SUMMARY

identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 03/14/2012 has revealed that there are 13 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TRI-STAR ELECTRONICS INT'L INC Status: Refer: Other Agency	2201 ROSECRANS AVE.	SSE 1/4 - 1/2 (0.313 mi.)	57	135
ALLIED SALES & SALVAGE Status: Refer: Other Agency	160 SEPULVEDA	NW 1/2 - 1 (0.659 mi.)	70	196
RAYTHEON SPACE & AIRBORNE SYST Status: Active	2000 E EL SEGUNDO BLVD	NW 1/2 - 1 (0.688 mi.)	Q71	197
ALLIED AEROSPACE Status: Active	400 DULEY RD	N 1/2 - 1 (0.828 mi.)	74	250
CHEVRON LAND AND DEVELOPMENT Status: * De-listed	MARINE AVENUE AND SEPULSSW 1/2 - 1 (0.929 mi.)		75	256
HILTON GARDEN INN Status: No Further Action	MARIPOSA AVENUE AND NASV 1/2 - 1 (0.975 mi.)		76	259

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ELCO CORPORATION Status: * De-listed	2250 PARK PLACE	SSE 1/8 - 1/4 (0.244 mi.)	52	118
DANA MIDDLE SCHOOL Status: No Further Action	13500 AVIATION BLVD.	ENE 1/4 - 1/2 (0.284 mi.)	M53	125
MANHATTAN MARKETPLACE Status: No Further Action	ROSECRANS AND PARK WAY SSW 1/4 - 1/2 (0.286 mi.)		54	128
XEROX CORP Status: Refer: Other Agency	555 AVIATION BLVD S	E 1/4 - 1/2 (0.304 mi.)	55	129
FAIRCHILD SPACE - MANHATTAN BE Status: Refer: RWQCB	1800 WEST ROSECRANS	SSE 1/4 - 1/2 (0.465 mi.)	O66	178
NEW CABRILLO ELEMENTARY SCHOOL Status: No Further Action	5309 W 135TH ST	E 1/2 - 1 (0.626 mi.)	69	191
L.A.C.M.T.A. Status: Certified	14724 AVIATION BLVD	SE 1/2 - 1 (0.731 mi.)	73	245

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/20/2012 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
N. W. AIRLINES LAX RESERV Status: Completed - Case Closed	185 DOUGLAS	NNE 1/4 - 1/2 (0.340 mi.)	58	153

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AEROSPACE BLDG A9 Status: Completed - Case Closed	2350 EL SEGUNDO	NNE 1/4 - 1/2 (0.476 mi.)	P68	187
Lower Elevation	Address	Direction / Distance	Map ID	Page
EDELBROCK INC DATA DISPLAY Status: Completed - Case Closed	411 CORAL CIRCLE 411 CORAL CIR	NNE 0 - 1/8 (0.087 mi.) NNE 0 - 1/8 (0.087 mi.)	C12 C13	30 32
HUGHES COMMUNICATIONS Status: Completed - Case Closed	2330 UTAH AVE	ENE 0 - 1/8 (0.107 mi.)	F19	45
VESTCOM PROPERTY Status: Completed - Case Closed	2335 ALASKA AVE	E 1/8 - 1/4 (0.169 mi.)	J40	84
XEROX CORP Status: Completed - Case Closed	555 AVIATION BLVD S	E 1/4 - 1/2 (0.304 mi.)	55	129
XEROX CORPORATION Status: Completed - Case Closed	737 HAWAII AVE	ESE 1/4 - 1/2 (0.356 mi.)	59	156
FAIRCHILD SPACE & DEFENSE	1800 ROSECRANS	SSE 1/4 - 1/2 (0.465 mi.)	O64	177

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 01/20/2012 has revealed that there are 8 SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GENERAL CHEMICAL LLC Facility Status: Open - Remediation	608 SOUTH SEPULVEDA BLV	W 1/4 - 1/2 (0.401 mi.)	60	160
ELECTRONIC ENCLOSURES, INC. Facility Status: Open - Verification Monitoring	225 S AVIATION BLVD	NE 1/4 - 1/2 (0.414 mi.)	61	161
UND 4 5 HONEYWELL EL SEGUNDO S Facility Status: Open - Remediation	850 SOUTH SEPULVEDA BLV	WSW 1/4 - 1/2 (0.454 mi.)	N63	175
THE AEROSPACE CORP Facility Status: Open - Site Assessment	2350 E EL SEGUNDO BLVD	NNE 1/4 - 1/2 (0.476 mi.)	P67	185
Lower Elevation	Address	Direction / Distance	Map ID	Page
EATON CORP EATON CORP Facility Status: Completed - Case Closed	2338 ALASKA 2338 ALASKA AVE	E 1/8 - 1/4 (0.164 mi.) E 1/8 - 1/4 (0.164 mi.)	J33 J35	73 80
FAIRCHILD SPACE & DEFENSE CORP FAIRCHILD SPACE - MANHATTAN BE Facility Status: Open - Remediation Facility Status: Open - Remediation	1800 ROSECRANS 1800 WEST ROSECRANS	SSE 1/4 - 1/2 (0.465 mi.) SSE 1/4 - 1/2 (0.465 mi.)	O65 O66	178 178

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/20/2012 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RAYTHEON SYSTEMS CO	800 APOLLO ST	S 0 - 1/8 (0.097 mi.)	E16	40

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BUILDING E-51	800 APOLLO STREET	S 0 - 1/8 (0.097 mi.)	E17	45
EDS INFORMATION SERVICES	2121 PARK PLACE	SSW 0 - 1/8 (0.114 mi.)	G23	57
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEARNED LUMBER	653 S DOUGLAS ST	SSE 0 - 1/8 (0.052 mi.)	6	19

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 03/14/2012 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FAIRCHILD SPACE - MANHATTAN BE	1800 WEST ROSECRANS	SSE 1/4 - 1/2 (0.465 mi.)	O66	178

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEARNED LUMBER	653 S DOUGLAS ST	SSE 0 - 1/8 (0.052 mi.)	6	19
LAURA SCUDDER	525 S DOUGLAS ST	ENE 0 - 1/8 (0.052 mi.)	B7	21
HARCO	557 SOUTH DOUGLAS ST	E 0 - 1/8 (0.073 mi.)	B10	25
AMETEK MICROELECTRONICS	605 S DOUGLAS ST	E 0 - 1/8 (0.083 mi.)	D11	27
EDELBROCK, INC	411 CORAL CIRCLE	NNE 0 - 1/8 (0.087 mi.)	C14	35
THE AEROSPACE CORPORATION	277 CORAL CIR	NNE 1/8 - 1/4 (0.219 mi.)	K45	94
SPERRY FLIGHT SYSTEMS	645 HAWAII ST	ESE 1/8 - 1/4 (0.231 mi.)	L47	102
XEROX CORPORATION	2383 UTAH AVENUE	ENE 1/8 - 1/4 (0.232 mi.)	M50	112

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 14 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RAYTHEON SYSTEMS CO	800 APOLLO ST	S 0 - 1/8 (0.097 mi.)	E16	40
EDS/ABLE ENGINEERING SVCS	2121 PARK PLACE	SSW 0 - 1/8 (0.114 mi.)	G22	55

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEARNED LUMBER	653 S DOUGLAS ST	SSE 0 - 1/8 (0.052 mi.)	6	19
525 DOUGLAS PARTNERS	525 S DOUGLAS ST	ENE 0 - 1/8 (0.052 mi.)	B8	21
DATA DISPLAY	411 CORAL CIR	NNE 0 - 1/8 (0.087 mi.)	C13	32
HUGHES AIRCRAFT	2330 UTAH AVE	ENE 0 - 1/8 (0.107 mi.)	F18	45
POLAROID CORP	675 S DOUGLAS ST	SE 1/8 - 1/4 (0.152 mi.)	29	66
E E TECH INC	2352 UTAH AVE	ENE 1/8 - 1/4 (0.161 mi.)	F31	71
VACCO INDUSTRIES- EL SEGUNDO	2338 ALASKA AVE	E 1/8 - 1/4 (0.164 mi.)	J34	73
VESTCOM & ASSOCIATES	2335 ALASKA AVE	E 1/8 - 1/4 (0.169 mi.)	J38	83
THE AEROSPACE CORP	270 CORAL CIR	NNE 1/8 - 1/4 (0.225 mi.)	K46	101
SPERRY CORP	645 HAWAII ST	ESE 1/8 - 1/4 (0.231 mi.)	L48	106
XEROX CORPORATION	2383 UTAH AVENUE	ENE 1/8 - 1/4 (0.232 mi.)	M50	112
XEROX CORPORATION	2355 UTAH AVE	ENE 1/8 - 1/4 (0.232 mi.)	M51	117

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/10/2011 has revealed that there are 4 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DATA DISPLAY PRODUCTS	301 CORAL CIRCLE	NNE 1/8 - 1/4 (0.193 mi.)	K42	88
XEROX CORP ESM3	2355 UTAH AVE	ENE 1/8 - 1/4 (0.232 mi.)	M49	108
XEROX CORPORATION	2383 UTAH AVENUE	ENE 1/8 - 1/4 (0.232 mi.)	M50	112

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ELCO CORPORATION</i>	<i>2250 PARK PLACE</i>	<i>SSE 1/8 - 1/4 (0.244 mi.)</i>	<i>52</i>	<i>118</i>

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 01/03/2012 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FAIRCHILD SPACE - MANHATTAN BE</i>	<i>1800 WEST ROSECRANS</i>	<i>SSE 1/4 - 1/2 (0.465 mi.)</i>	<i>O66</i>	<i>178</i>

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>N. W. AIRLINES LAX RESERV</i>	<i>185 DOUGLAS</i>	<i>NNE 1/4 - 1/2 (0.340 mi.)</i>	<i>58</i>	<i>153</i>
<i>AEROSPACE BLDG A9</i>	<i>2350 EL SEGUNDO</i>	<i>NNE 1/4 - 1/2 (0.476 mi.)</i>	<i>P68</i>	<i>187</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>DATA DISPLAY</i>	<i>411 CORAL CIR</i>	<i>NNE 0 - 1/8 (0.087 mi.)</i>	<i>C13</i>	<i>32</i>
<i>HUGHES COMMUNICATIONS</i>	<i>2330 UTAH AVE</i>	<i>ENE 0 - 1/8 (0.107 mi.)</i>	<i>F19</i>	<i>45</i>
<i>VESTCOM PROPERTY</i>	<i>2335 ALASKA</i>	<i>E 1/8 - 1/4 (0.169 mi.)</i>	<i>J39</i>	<i>84</i>
<i>XEROX CORP</i>	<i>555 AVIATION BLVD S</i>	<i>E 1/4 - 1/2 (0.304 mi.)</i>	<i>55</i>	<i>129</i>
<i>FAIRCHILD SPACE & DEFENSE</i>	<i>1800 ROSECRANS</i>	<i>SSE 1/4 - 1/2 (0.465 mi.)</i>	<i>O64</i>	<i>177</i>

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HONEYWELL INTL INC</i>	<i>850 S SEPULVEDA BLVD</i>	<i>WSW 1/4 - 1/2 (0.454 mi.)</i>	<i>N62</i>	<i>164</i>

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/09/2010 has revealed that there are 2 HWP sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RAYTHEON COMPANY, SPACE AND AI</i>	<i>2000 E. EL SEGUNDO BLVD</i>	<i>NW 1/2 - 1 (0.688 mi.)</i>	<i>Q72</i>	<i>201</i>

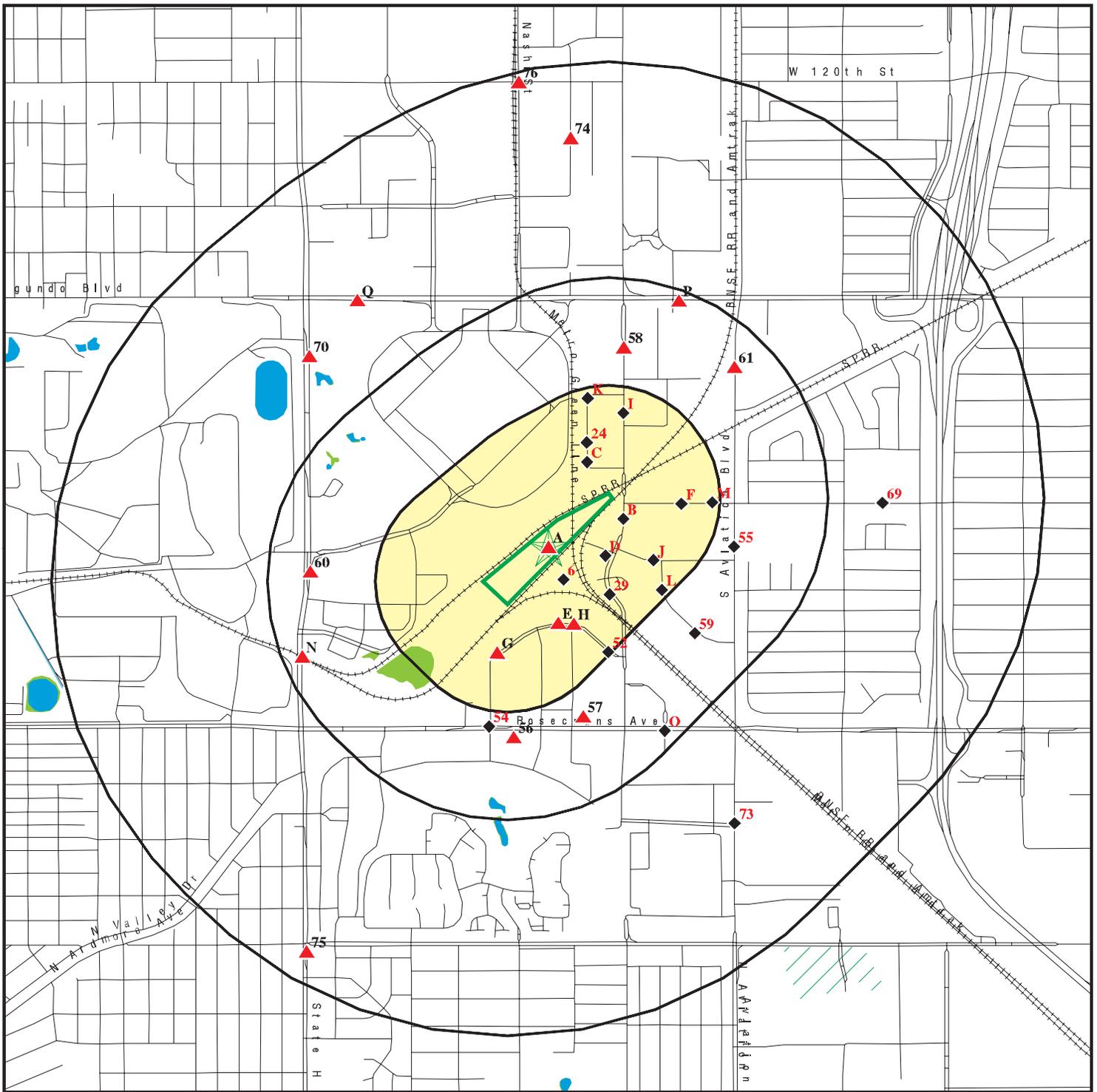
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ELCO CORPORATION</i>	<i>2250 PARK PLACE</i>	<i>SSE 1/8 - 1/4 (0.244 mi.)</i>	<i>52</i>	<i>118</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 29 records.

<u>Site Name</u>	<u>Database(s)</u>
COCA-COLA ENTERPRISES - W	HIST CORTESE
NORTHROP GRUMMAN SPACE & MISSION S	HAZNET, ENVIROSTOR, HWP
ALAMITOS BARRIER PROJECT - LOS CER	NPDES
NORTHROP CORP AIRCRAFT DIV	RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-LQG, FINDS
FRIEDMAN CONSTRUCTION	SWEEPS UST
DE-BEST MFG CO INC	CERC-NFRAP
MOBIL REFINERY MANHATTAN BEACH	CERC-NFRAP
NORTHROP CORP AIRCRAFT DIV	CORRACTS, RCRA-NonGen, FINDS
NORTHROP CORP AIRCRAFT DIV	CORRACTS, RCRA-NonGen, FINDS
EL SEGUNDO CITY DUMP	SWF/LF
EL SEGUNDO CITY DUMP	SWF/LF
THE AEROSPACE CORPORATION	UST
SOUTHERN CA EDISON - ROSECRANS SUB	HAZNET
SOUTHERN CA EDISON - ROSECRANS SUB	HAZNET
CHOICE DENTAL GROUP - HAWTHORNE	HAZNET
SOUTHERN CALIFORNIA EDISON - REDMA	HAZNET
H&M AUTO BODY	HAZNET
BERTH 136 - PORT OF LOS ANGELES	ERNS
UNKNOWN SHEEN INCIDENT 611 HENERY	ERNS
UNKNOWN SHEEN INCIDENT - CABRILLO	ERNS
H & C DISPOSAL INC T.S.	FINDS
DOD - LOS ANGELES AIRFORCE BASE	SLIC
DOD - LOS ANGELES AIRFORCE BASE	SLIC
NORTHROP - ANAHEIM	SLIC
NORTHROP - ANAHEIM	SLIC
FORT MCARTHUR	SLIC
METRO WD AQUATIC PEST. - WEED	CA BOND EXP. PLAN
H & SONS AUTO BODY	WDS
NORTHROP GRUMMAN CORP. - HAWTHORNE	EMI
	ENVIROSTOR

OVERVIEW MAP - 3314365.38s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

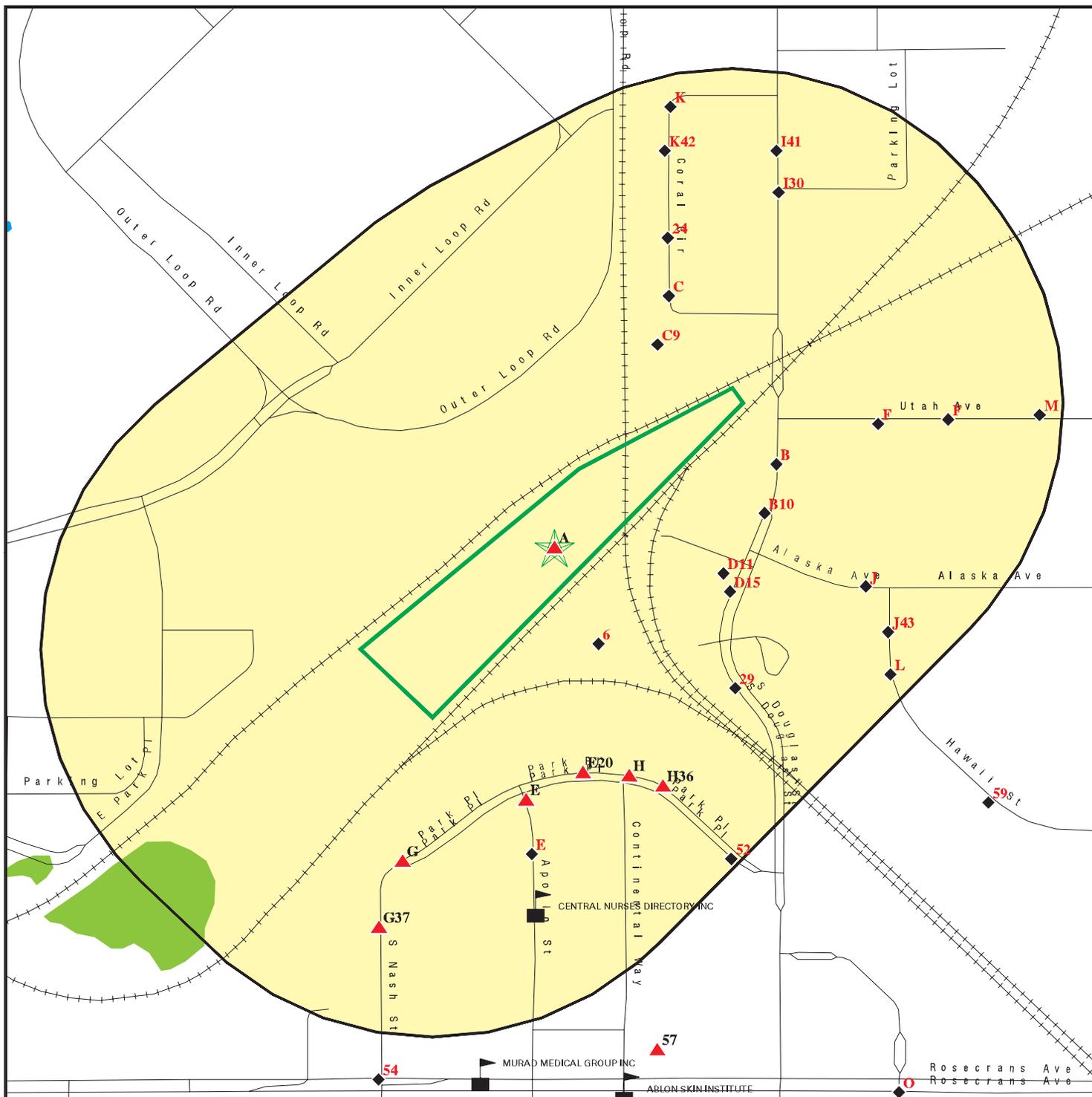


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Kramer, H & Co. - 438
 ADDRESS: 1 Chapman Way
 El Segundo CA 90245
 LAT/LONG: 33.908 / 118.3862

CLIENT: Weston Solutions, Inc.
 CONTACT: Brian Reilly
 INQUIRY #: 3314365.38s
 DATE: May 02, 2012 10:10 am

DETAIL MAP - 3314365.38s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

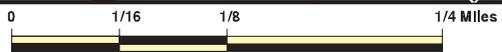
Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Kramer, H & Co. - 438
 ADDRESS: 1 Chapman Way
 El Segundo CA 90245
 LAT/LONG: 33.908 / 118.3862

CLIENT: Weston Solutions, Inc.
 CONTACT: Brian Reilly
 INQUIRY #: 3314365.38s
 DATE: May 02, 2012 10:12 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500	1	0	0	1	NR	NR	2
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	1	NR	1
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	1	0	NR	NR	1
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250	1	8	12	NR	NR	NR	21
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	1	0	1	NR	2
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000	1	0	1	5	7	NR	14
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		3	1	5	NR	NR	9
SLIC	0.500	1	0	2	6	NR	NR	9

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		3	0	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		5	3	NR	NR	NR	8
SWEEPS UST	0.250		6	8	NR	NR	NR	14
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		0	4	NR	NR	NR	4
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
WDS	TP	1	NR	NR	NR	NR	NR	1
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500	1	0	0	1	NR	NR	2
HIST CORTESE	0.500	1	2	1	4	NR	NR	8
Notify 65	1.000		0	0	1	0	NR	1
LA Co. Site Mitigation	TP	1	NR	NR	NR	NR	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP	1	NR	NR	NR	NR	NR	1
HAZNET	TP	2	NR	NR	NR	NR	NR	2
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
HWP	1.000		0	1	0	1	NR	2
HWT	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
EDR Historical Auto Stations	0.250		0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 **KRAMER H & CO - CALIFORNIA DIV**
Target **NO 1 CHAPMAN WAY**
Property **EL SEGUNDO, CA 90245**

HAZNET **S100938394**
N/A

Site 1 of 5 in cluster A

Actual:
96 ft.

HAZNET:

Year: 2007
Gepaid: CAD008260267
Contact: BRIAN WAGNER, CONTROLLER
Telephone: 3122266600
Mailing Name: Not reported
Mailing Address: 1339 W 21ST ST
Mailing City,St,Zip: CHICAGO, IL 606083111
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons: 0.27
Facility County: Los Angeles

Year: 2006
Gepaid: CAD008260267
Contact: JOSEPH L STRUM/CONTROLLER
Telephone: 3122266600
Mailing Name: Not reported
Mailing Address: 1339 W 21ST ST
Mailing City,St,Zip: CHICAGO, IL 606083111
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: H03
Tons: 0.1
Facility County: Los Angeles

Year: 2005
Gepaid: CAD008260267
Contact: JOSEPH L STRUM/CONTROLLER
Telephone: 3122266600
Mailing Name: Not reported
Mailing Address: 1339 W 21ST ST
Mailing City,St,Zip: CHICAGO, IL 606083111
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01
Tons: 0.33
Facility County: Not reported

Year: 2004
Gepaid: CAD008260267
Contact: JOSEPH L STRUM/CONTROLLER
Telephone: 3122266600
Mailing Name: Not reported
Mailing Address: 1339 W 21ST ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRAMER H & CO - CALIFORNIA DIV (Continued)

S100938394

Mailing City,St,Zip: CHICAGO, IL 606083111
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01
Tons: 0.33
Facility County: Not reported

Year: 2003
Gepaid: CAD008260267
Contact: JOSEPH L STRUM/CONTROLLER
Telephone: 3122266600
Mailing Name: H. KRAMER AND COMPANY
Mailing Address: 1339 W 21ST ST
Mailing City,St,Zip: CHICAGO, IL 606083111
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Not reported
Tons: 0.2
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access
14 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 H KRAMER & CO
Target NO 1 CHAPMAN WAY EL SEGUNDO CA 90245
Property EL SEGUNDO, CA 90245

ICIS 1011569291
N/A

Site 2 of 5 in cluster A

Actual:
96 ft.

ICIS:
Enforcement Action ID: 09-1989-0004
FRS ID: 110002631153
Program ID: FRS 110002631153
Action Name: H. KRAMER & CO.
Facility Name: H KRAMER & CO
Facility Address: NO 1 CHAPMAN WAY EL SEGUNDO CA 90245
EL SEGUNDO, California 90245
Enforcement Action Type: Bankruptcy
Facility County: Los Angeles
EPA Region #: 9

Enforcement Action ID: 09-1989-0004
FRS ID: 110002631153
Program ID: HWTS-DATAMART CAD008260267
Action Name: H. KRAMER & CO.
Facility Name: KRAMER H & CO - CALIFORNIA DIV
Facility Address: NO 1 CHAPMAN WAY EL SEGUNDO CA 90245
EL SEGUNDO, California 90245
Enforcement Action Type: Bankruptcy
Facility County: Los Angeles
EPA Region #: 9

Enforcement Action ID: 09-1989-0004
FRS ID: 110002631153

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H KRAMER & CO (Continued)

1011569291

Program ID: RCRAINFO CAD008260267
Action Name: H. KRAMER & CO.
Facility Name: H KRAMER & CO
Facility Address: NO 1 CHAPMAN WAY EL SEGUNDO CA 90245
EL SEGUNDO, California 90245
Enforcement Action Type: Bankruptcy
Facility County: Los Angeles
EPA Region #: 9

Program ID: FRS 110002631153
Facility Name: H KRAMER & CO
Address: NO 1 CHAPMAN WAY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3341
Latitude: 33.90808
Longitude: -118.38448

Program ID: HWTS-DATAMART CAD008260267
Facility Name: H KRAMER & CO
Address: NO 1 CHAPMAN WAY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3341
Latitude: 33.90808
Longitude: -118.38448

Program ID: RCRAINFO CAD008260267
Facility Name: H KRAMER & CO
Address: NO 1 CHAPMAN WAY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3341
Latitude: 33.90808
Longitude: -118.38448

A3
Target
Property

H KRAMER & CO
NO 1 CHAPMAN WAY
EL SEGUNDO, CA 90245

CERC-NFRAP **1000353464**
RCRA-SQG **CAD008260267**
FINDS
HIST CORTESE
HAZNET

Site 3 of 5 in cluster A

Actual:
96 ft.

CERC-NFRAP:
Site ID: 0903423
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Site Reassessment Start Needed

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13055493.00000
Person ID: 9271184.00000

Contact Sequence ID: 13286465.00000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H KRAMER & CO (Continued)

1000353464

Person ID: 13003854.00000

Contact Sequence ID: 13292060.00000
Person ID: 13003858.00000

Contact Sequence ID: 13297918.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: KRAMER H & CO CALIFORNIA DIV (FINDS)
Alias Address: Not reported
CA

Alias Name: KRAMER FOUNDRY
Alias Address: Not reported
CA

Program Priority:

Description: RCRA Deferral - New Decision

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 05/08/1988
Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER
Date Started: Not reported
Date Completed: 07/07/1988
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 07/25/1990
Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 09/19/1990
Priority Level: Deferred to RCRA (Subtitle C)

Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 04/10/1989
Date Completed: 11/07/1990
Priority Level: Cleaned up

Action: ADMINISTRATIVE RECORDS
Date Started: 03/26/1992
Date Completed: 03/26/1992
Priority Level: Admin Record Compiled for a Removal Event

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 07/24/2000
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H KRAMER & CO (Continued)

1000353464

RCRA-SQG:

Date form received by agency: 09/01/1996
Facility name: H KRAMER & CO
Facility address: NO 1 CHAPMAN WAY
EL SEGUNDO, CA 90245
EPA ID: CAD008260267
Mailing address: 1345 W TWENTY FIRST ST
CHICAGO, IL 60608
Contact: Not reported
Contact address: Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: H KRAMER & CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H KRAMER & CO (Continued)

1000353464

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 12/09/1980
Facility name: H KRAMER & CO
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002631153

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: WBC&D
Reg Id: 4B191281001

HAZNET:

Year: 1994
Gepaid: CAL000107674
Contact: H KRAMER AND COMPANY
Telephone: 3122266600
Mailing Name: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

H KRAMER & CO (Continued)

1000353464

Mailing Address: P.O. 5047
 Mailing City,St,Zip: SAN RAMON, CA 945830947
 Gen County: Los Angeles
 TSD EPA ID: CAT080033681
 TSD County: Los Angeles
 Waste Category: Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
 Disposal Method: R01
 Tons: 4.1700
 Facility County: Los Angeles

Year: 1993
 Gepaid: CAL000107674
 Contact: H KRAMER AND COMPANY
 Telephone: 3122266600
 Mailing Name: Not reported
 Mailing Address: P.O. 5047
 Mailing City,St,Zip: SAN RAMON, CA 945830947
 Gen County: Los Angeles
 TSD EPA ID: CAT080033681
 TSD County: Los Angeles
 Waste Category: Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
 Disposal Method: R01
 Tons: 10.4250
 Facility County: Los Angeles

Year: 1993
 Gepaid: CAL000107674
 Contact: H KRAMER AND COMPANY
 Telephone: 3122266600
 Mailing Name: Not reported
 Mailing Address: P.O. 5047
 Mailing City,St,Zip: SAN RAMON, CA 945830947
 Gen County: Los Angeles
 TSD EPA ID: CAD000633164
 TSD County: Imperial
 Waste Category: Contaminated soil from site clean-up
 Disposal Method: D80
 Tons: 35.3976
 Facility County: Los Angeles

A4 Target Property
KRAMER & CO. & HARSHAW CHEMICAL
1 CHAPMAN WAY
EL SEGUNDO, CA 90245

Cortese S101540204
SLIC N/A
LA Co. Site Mitigation
ENF
ENVIROSTOR

Site 4 of 5 in cluster A

Actual:
96 ft.

CORTESE:
 Region: CORTESE
 Envirostor Id: Not reported
 Site/Facility Type: Not reported
 Cleanup Status: Not reported
 Status Date: Not reported
 Site Code: Not reported
 Latitude: Not reported
 Longitude: Not reported
 Owner: Kramer & Co. & Harshaw Chem.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRAMER & CO. & HARSHAW CHEMICAL (Continued)

S101540204

Enf Type: CAO
Swat R: Not reported
Flag: CORTESE
Order No: 92-094
Waste Discharge System No: Not reported
Effective Date: 12/28/1992
Region 2: 4
WID Id: 4B191281001
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported

SLIC:

Region: STATE
Facility Status: Open - Verification Monitoring
Status Date: 09/12/2011
Global Id: SL204011483
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.907655
Longitude: -118.382715
Case Type: Cleanup Program Site
Case Worker: PGN
Local Agency: Not reported
RB Case Number: 0425
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Case was closed conditionally in 1995. Site is under post remediation long term monitoring program. However, based on the available data, RB staff asked RP to conduct additional Investigation to find another source of VOCs. Currently, RP is involving to get more offsite data to evaluate possible VOCs offsite sources.

[Click here to access the California GeoTracker records for this facility:](#)

SLIC REG 4:

Region: 4
Facility Status: Post Remediation Monitoring
SLIC: 0425
Substance: Metal
Staff: PGN

LA Co. Site Mitigation:

Facility ID: Not reported
Site ID: SD0010165
Case ID: RO0000427
Abated: Yes
Assigned To: Not reported
Entered Date: 05/11/2004
Abated Date: 01/26/1998

ENF:

Region: 4
Facility Id: 235599
Agency Name: Kramer & Co. & Harshaw Chemical

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRAMER & CO. & HARSHAW CHEMICAL (Continued)

S101540204

Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.908127
Place Longitude:	-118.38471
SIC Code 1:	281
SIC Desc 1:	Industrial inorganic chemicals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	3
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Designated miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NON15
# Of Programs:	1
WDID:	4B191281001
Reg Measure Id:	135010
Reg Measure Type:	WDR
Region:	4
Order #:	94-031
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Active
Status Date:	03/02/2011
Effective Date:	04/04/1994
Expiration/Review Date:	03/31/2009
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	58 - Non15 Based on (TTWQ)/CPLX

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRAMER & CO. & HARSHAW CHEMICAL (Continued)

S101540204

Direction/Voice: Passive
Enforcement Id(EID): 220202
Region: 4
Order / Resolution Number: CAO
Enforcement Action Type: Clean-up and Abatement Order
Effective Date: 12/28/1992
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 12/28/1992
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: CAO - 4B191281001
Description: NEED ACTION IMMEDIATELY.
Program: NON15
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

ENVIROSTOR:

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Facility ID: 19330144
Site Code: Not reported
Assembly: 53
Senate: 28
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 08/19/1991
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 33.9075
Longitude: -118.3833
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: 10003, 10008, 10034, 40001, 10197, 10199, 30001, 30013
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD008260267
Alias Type: EPA Identification Number
Alias Name: 19330144
Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KRAMER & CO. & HARSHAW CHEMICAL (Continued)

S101540204

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/20/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/20/1991
Comments: Tetra Tech submitted a preliminary endangerment assessment (environmental assessment) report to the Dept prepared for the rail construction corporation which plans to build a portion of the Los Angeles County Transportation Commission Metro Green Line Project across the identified haz waste property of H. Kramer facility. Tetra Tech provided the proposed construction plan in the PEA. The RP paid the PEA fees to the Dept. PEA was completed. PEA concluded that the site should be referred to U.S. EPA for further action because it is currently on CERCLIS. Currently, EPA is the lead agency for further action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/03/1991
Comments: Sample Results: Slag Pile = PB 2500 mg/kg, CU 53800, BE 230, ZN 76000, AS 17, PB WET 259; Soil = AS 2800 mg/kg, BE 18, CU 1700, PB 420, ZN 76; Groundwater = AS 140 mg/kg, CR6 .23, SE .24, PCE 200 ug/l, TCE 370, Toluene 270, Xylene 300, Carbon Tet 43 (from ENSR Report to EPA, February 1990). Site Screening Done: Site is a brass foundry contaminated w/ AS, PB, ZN, CU. Possible Asbestos in furnace area. Slag pile is primary source. Previous Company had evaporation pond. AS & Solvents in groundwater probably from pond. Pond is now filled with slag.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 05/14/1982
Comments: Facility identified from telephone book search;questionnaire sent.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A5 **KRAMER & CO. & HARSHAW CHEM.**
Target **1 CHAPMAN WAY**
Property **EL SEGUNDO, CA 90245**

WDS **S103438662**
N/A

Site 5 of 5 in cluster A

Actual:
96 ft.

CA WDS:
 Facility ID: Los Angeles River 191281001
 Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
 Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
 NPDES Number: Not reported
 Subregion: 4
 Facility Telephone: 5108425882
 Facility Contact: Bill OBrien
 Agency Name: KRAMER & CO. & HARSHAW CHEM.
 Agency Address: Not reported
 Agency City,St,Zip: 0
 Agency Contact: Not reported
 Agency Telephone: Not reported
 Agency Type: Private
 SIC Code: 281
 SIC Code 2: Not reported
 Primary Waste: Miscellaneous (Includes wastes from dewatering, recreational lake overflow, swimming pool wastes, water ride wastewater, ground water seepage and other wastes of this type)
 Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Design Flow: 0
 Baseline Flow: 0
 Reclamation: No reclamation requirements associated with this facility.
 POTW: The facility is not a POTW.
 Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
 Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

6
SSE
< 1/8
0.052 mi.
275 ft.

LEARNED LUMBER
653 S DOUGLAS ST
EL SEGUNDO, CA 90245

HIST UST **U001563013**
AST **N/A**
SWEEPS UST
LOS ANGELES CO. HMS

Relative:
Lower

HIST UST:
 Region: STATE
 Facility ID: 00000006566
 Facility Type: Other
 Other Type: LUMBERYARD

Actual:
93 ft.

ATTACHMENT A-5:

Sanborn Maps



Kramer, H & Co. - 438

1 Chapman Way

El Segundo, CA 90245

Inquiry Number: 3314365.39

May 02, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

5/02/12

Site Name:

Kramer, H & Co. - 438
1 Chapman Way
El Segundo, CA 90245

Client Name:

Weston Solutions, Inc.
1340 Treat Boulevard
Walnut Creek, CA 94597



EDR Inquiry # 3314365.39

Contact: Brian Reilly

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Certified Sanborn Results:

Site Name: Kramer, H & Co. - 438
Address: 1 Chapman Way
City, State, Zip: El Segundo, CA 90245
Cross Street:
P.O. # 20074.063.054.1001
Project: PCS 25 Site Screens
Certification # 90F3-4D60-9A05



Sanborn® Library search results
Certification # 90F3-4D60-9A05

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

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- Library of Congress
- University Publications of America
- EDR Private Collection

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ATTACHMENT A-6:

City Directory

Kramer, H & Co. - 438

1 Chapman Way
El Segundo, CA 90245

Inquiry Number: 3314365.40
May 02, 2012

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2006	Haines Company	-	-	-	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	X	X	X	-
2000	Pacific Bell Telephone Co	-	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-
	Pacific Bell Telephone Co	X	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	Pacific Bell	X	X	X	-
	Pacific Bell Telephone Co	X	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	X	X	X	-
1981	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	X	X	X	-
	Pacific Telephone Co	X	X	X	-
1976	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	X	X	X	-
	Pacific Telephone Co	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	X	X	X	-
1970	Pacific Telephone	-	X	X	-
	Pacific Telephone Co	-	X	X	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	X	X	X	-
1966	Pacific Telephone	-	X	X	-
1965	Pacific Telephone	-	X	X	-
	The Pacific Telephone and Telegraph Co	-	X	X	-
1964	Pacific Telephone	-	X	X	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	Luskey Brothers & Co	-	-	-	-
1960	General Telephone Company Publishers	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Home Directory Service	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Los Angeles Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Kaasen Directory Company Publishers	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>IP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1 Chapman Way
El Segundo, CA 90245

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	2351 M&W PACKAGING SERVICES	Haines & Company, Inc. Haines & Company, Inc.
1995	Chapkis Andrew B CPA	Pacific Bell
1990	ALLENS EXCAVATING	Pacific Bell Telephone Co
1985	KRAMER H & CO Kramer H & Co	Pacific Bell Pacific Bell
1981	KRAMER H & CO EL SEGUNDO	Pacific Telephone
1980	KRAMER H & CO CHAPMAN AVE EL SEGUNDO KRAMER H & CO G Harris International Kramer H & Co	Pacific Telephone Pacific Telephone Pacific Telephone Co Pacific Telephone Co
1976	KRAMER H & CO	Pacific Telephone
1975	KRAMER H & CO Kramer H& Co	Pacific Telephone Pacific Telephone Co
1971	KRAMER H & CO	Pacific Telephone
1967	KRAMER H & CO No	Pacific Telephone

ATTACHMENT A-7:
Additional References

[Records for this property are kept at the Headquarters Office](#)

(["How frequently is the information updated on this site?" and other FAQs.](#))

Property Information

Assessor's ID No. 4138-009-004
 Site Address 555 S AVIATION BLVD
 EL SEGUNDO CA 90245
 Property Type Commercial / Industrial
 Region / Cluster 23 / 23698
 Tax Rate Area (TRA) 09851

[Click Here to View Assessor's Map](#)

[Click Here to View Index Map](#)

Recent Sale Information

Latest Sale Date
 Indicated Sale Price

[Search for Recent Sales](#)

2012 Roll Values

Recording Date 12/13/2011
 Land \$8,283,051
 Improvements \$6,561,265
 Personal Property \$0
 Fixtures \$0
 Homeowners' Exemption \$0
 Real Estate Exemption \$0
 Personal Property Exemption \$0
 Fixture Exemption \$0

[Click Here for 2012 Annual Taxes](#)

([I have a question regarding my property tax payment](#))

[Estimate Supplemental Taxes](#)

Property Boundary Description

TRACT NO 26557 LOTS 10,11,12 AND LOT 13

Building Description(s)

Improvement 1

Square Footage 78,000
 Year Built / Effective Year Built 1966 / 1966
 Bedrooms / Bathrooms 0 / 0
 Units 0

Improvement 2

Square Footage 255,232
 Year Built / Effective Year Built 1966 / 1966
 Bedrooms / Bathrooms 0 / 0
 Units 0

Improvement 3

Square Footage 42
 Year Built / Effective Year Built 1968 / 1968
 Bedrooms / Bathrooms 0 / 0
 Units 0

Improvement 4

Square Footage 2,232
 Year Built / Effective Year Built 1972 / 1972
 Bedrooms / Bathrooms 0 / 0

Units		0
	Improvement 5	
Square Footage		1,600
Year Built / Effective Year Built		1984 / 1984
Bedrooms / Bathrooms		0 / 0
Units		0

[Click Here for Another Search](#)

[Records for this property are kept at the Headquarters Office](#)

(["How frequently is the information updated on this site?"](#) and other FAQs.)

Property Information

Assessor's ID No.	4138-009-016
Site Address	701 S AVIATION BLVD EL SEGUNDO CA 90245
Property Type	Commercial / Industrial
Region / Cluster	23 / 23698
Tax Rate Area (TRA)	09851

[Click Here to View Assessor's Map](#)

[Click Here to View Index Map](#)

Recent Sale Information

Latest Sale Date
Indicated Sale Price

[Search for Recent Sales](#)

2012 Roll Values

Recording Date	12/13/2011
Land	\$3,154,344
Improvements	\$70,252
Personal Property	\$0
Fixtures	\$0
Homeowners' Exemption	\$0
Real Estate Exemption	\$0
Personal Property Exemption	\$0
Fixture Exemption	\$0

[Click Here for 2012 Annual Taxes](#)

([I have a question regarding my property tax payment](#))

[Estimate Supplemental Taxes](#)

Property Boundary Description

TRACT NO 26557 N 70 FT (MEASURED AT R/A TO N LINE) OF LOT 32 AND THAT PART N OF S 130 FT OF LOT 35

Building Description(s)

	Improvement 1
Square Footage	135,000
Year Built / Effective Year Built	1966 / 1966
Bedrooms / Bathrooms	0 / 0
Units	0

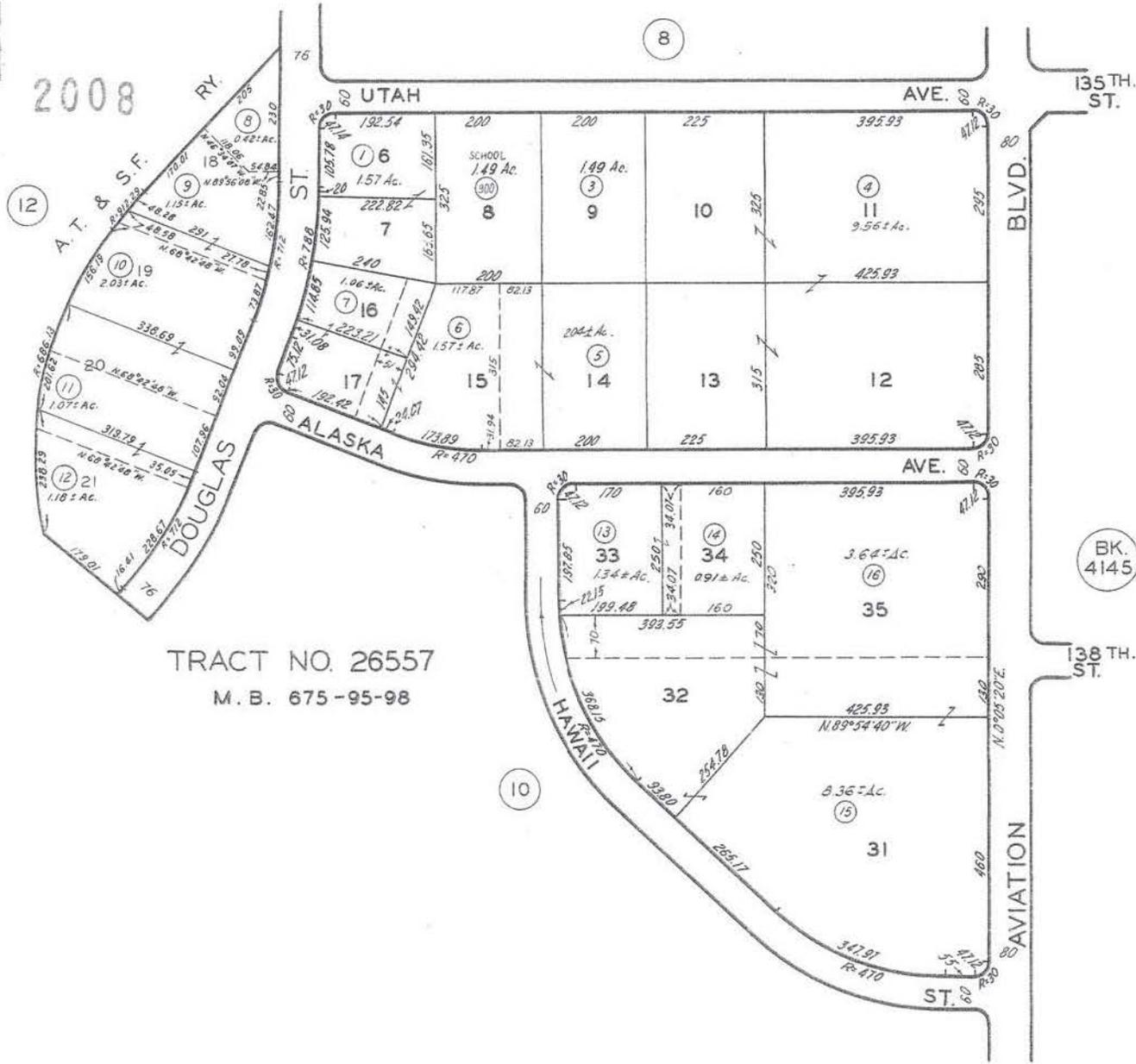
[Click Here for Another Search](#)

2-3-66
4-14-66
6-18-12
2008030512002001-25

REVISED
10-20-61
12-15-62
10-8-63P
7-21-64
68019519
680217

SCALE 1" = 200'

2008



BK. 4145

CODE 9851

FOR PREV. ASSMT. SEE:
4137 - 36 & 37

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

Mr. Noori Alavi
California Regional Water Quality Control Board
Los Angeles Region
320 West Fourth Street, Suite 200
Los Angeles, California 90013-2343

Subject:

Summary of Site Investigations and Remedial Activities
Former H. Kramer & Company Facility
El Segundo, California

Dear Mr. Alavi:

On behalf of Chevron Environmental Management Company (Chevron EMC), ARCADIS U.S., Inc. (ARCADIS) has prepared this letter report to summarize site assessment and remedial activities performed at the former H. Kramer & Company Facility (the Site) located in El Segundo, California (see Figure 1). The site summary was requested by the California Regional Water Quality Control Board – Los Angeles Region (Regional Board) during a meeting with Chevron EMC and ARCADIS on September 25, 2008.

Site investigations and remedial activities have been conducted since 1985, and include the construction of an impermeable cap in 1995. Past activities at the Site included:

- Soil and groundwater investigation in December 1985;
- Preliminary site assessment in March 1988;
- Additional soil and groundwater investigation in November 1989;
- Submittal of a risk assessment in May 1992;
- Supplemental soil and groundwater investigations in November and December 1992;
- Phase II supplemental site investigation in August 1993;
- Geotechnical investigation in March 1994;

ARCADIS
3240 El Camino Real
Suite 200
Irvine
California 92602-1385
Tel 714.730.9052
Fax 714.730.9345
www.arcadis-us.com

ENVIRONMENTAL

Date:
July 29, 2009

Contact:
Mr. Allen Just, P.E.

Phone:
714.730.9052

Email:
Allen.Just@arcadis-us.com

Our ref:
B0046732.0000.00005

- Preliminary cap design in November 1993;
- Final remedial cap design in July 1994;
- Submittal of an *Asphalt Concrete Pavement Maintenance and Rehabilitation Plan* in July 1994;
- Soil investigation in September 1994;
- Submittal of Post-Closure Groundwater Monitoring Program in October 1994;
- Construction of remedial cap construction from September 1994 to March 1995;
- Annual cap inspection and reporting since March 1995;
- Submittal of Remedial Cap Final Closure Report in May 1995;
- Quarterly groundwater monitoring from June 1995 to March 1996; and
- Semiannual groundwater monitoring from March 1996 to March 2002.

More recent site activities include:

- Property improvements and leasing of property in December 2001;
- Annual groundwater monitoring since March 2002;
- Supplemental groundwater monitoring since September 2002;
- Corrective action for surficial cracking of remedial cap in January 2009;
- Redevelopment of monitoring wells in February and May 2009; and
- Resurveying of well casing elevations in March 2009.

Additional site information, and a summary of these activities and agency directives is provided below:

Site Description

The Site is located at One Chapman Way in El Segundo, California, approximately 0.7 miles east (inland) of the groundwater injection barrier along Sepulveda Boulevard. The Site is currently occupied by California Storagemasters, a business providing storage for privately owned automobiles, boats, and recreational vehicles (RVs). The surrounding land use is predominately commercial and industrial. The nearest groundwater production well is owned and operated by the California Water Service Company, and is located approximately 1.65 miles southeast of the Site.

Site History

Harshaw Chemical Company (Harshaw) conducted a variety of operations at the Site from the early 1940s until 1951, including the smelting of antimony and manufacturing of ammunition casings. These activities generated waste containing a variety of heavy metals, including arsenic, which was deposited in an on-site lagoon.

H. Kramer & Company (H. Kramer), operated a brass foundry at the Site from 1951 through mid-1985. Slag generated from site operations was disposed of in a waste pile, filling and now extending beyond a waste lagoon used by the previous site owner (Harshaw). In 1985, H. Kramer filed for bankruptcy under Chapter 11 (E&E 1988). The facility is thought to have been abandoned in or around 1986. With the exception of the building foundations in the southwest portion of the Site, all structures have since been demolished. The Site is currently owned by H. Kramer & Company of Chicago, Illinois. There is an existing cost sharing agreement between H. Kramer and Chevron EMC for present and future environmental liability management at the Site.

Agency Directives and Correspondence

The following summarizes the significant agency directives and correspondences for the Site:

June 7, 1988 –USEPA Region IX Order No. 88-17 required H. Kramer to submit and implement a work plan for the razing, demolition, and salvaging of buildings, equipment, and materials at the facility; and to submit and implement a work plan for a site assessment and for removal, treatment, and/or disposal of hazardous substances from the Site.

December 28, 1992 - Regional Board issued Cleanup and Abatement Order No. 92-094 (CAO). The CAO stated the following:

- *The California Department of Toxic Substance Control and EPA determined that the site posed a threat to health and the environment. The EPA had directed an effort to stabilize the surface of the site from blown dust emissions, waste oil storage, cooling water ponds, and laboratory chemicals. H. Kramer completed a surficial cleanup under the EPA's supervision. In the Regional Board's view, additional surficial issues need to be addressed. In addition, an EPA directed subsurface investigation had determined that the upper regional water unit, the "Old Dune Sand" aquifer, had been impacted by contaminants from the site, primarily arsenic.*
- *H. Kramer has proposed capping the slag pile as its only financially viable alternative to prevent further contamination from the slag pile and underlying soil from impacting the groundwater. To this end, a health risk assessment is being prepared for this remediation alternative.*

The CAO No. 92-094 ordered H. Kramer, Harshaw Chemical, and its successor companies to comply with the following:

- *Complete a human health risk assessment for the conditions of pollution and threatened pollution caused by materials deposited in the large surface impoundments and the slag pile, and to determine the risk of leaving said surface impoundments and slag pile in place with only an impervious cap as remediation.*
- *Complete a subsurface investigation to appropriately assess the horizontal and vertical extent of soil and groundwater pollution originating from on-site source(s). The determination of the impact on deeper aquifers from the pollution originating from the slag pile and the surface impoundments shall take priority.*
- ***Initiate a phased cleanup and abatement program.*** *The cleanup of any remaining surface contamination and the abatement of threatened on-site pollution sources shall take priority.*

- **The remediation program included:**
 - **Design slag pile cap/surface impoundment stabilization; and**
 - **Install slag pile cap/surface impoundment stabilization.**

April 4, 1994 - Regional Board issued revised Waste Discharge Requirements (WDR). The WDR states that the dischargers proposed capping the slag pile as an alternative to prevent further contamination from the slag pile and underlying soil from impacting the groundwater and public health. A Basis of Remedial Design was submitted to the Regional Board for review on November 23, 1993. Upon adoption of this Order, a final detail design will be initiated for the proposed capping system.

In Order No. 94-031, the Regional Board stated the following:

- *This Regional Board issued a Cleanup and Abatement Order (No. 92-094) dated December 28, 1992, to H. Kramer and Harshaw and its successor companies (hereafter called dischargers), which required that the respondents implement site investigations and remedial activities at the site.*
- *Additional supplemental site investigations were performed in November 1992 and August 1993. **The results indicated that the presence of a competent aquitard (Bellflower Aquiclude) beneath the site, established that the presence of arsenic in the Gage Aquifer is largely contained within the site boundaries. Also, the Old Dune Sand and Gage aquifers beneath the site have been impacted by regional volatile organic compounds (VOCs) contamination.***
- *A baseline health risk assessment was completed in 1992, for existing conditions at the site. As a result, it was determined that risk to hypothetical "child trespassers" and "current on-site worker" from dermal and inhalation exposure to the slag pile exceeds acceptable levels.*
- *The dischargers have proposed capping the slag pile as an alternative to prevent further contamination from the slag pile and underlying soil from impacting ground water and public health. A Basis of Remedial Design Report was submitted to this Regional Board for Review on November 23, 1993. Upon adoption of this Order, a final detail design will be initiated for the proposed capping system.*

In Order No. 94-031, the dischargers were directed to comply with the following requirements:

- *Slag placed into the existing large surface impoundment in the eastern portion of the site shall conform to the requirements specified in Chapter 15, Title 23, California Code of Regulations. As per Section 2510 (d) of the Chapter, the slag pile shall be considered an existing waste management unit and shall be closed and maintained during post-closure in accordance with Article 8 of this Chapter. The dischargers shall be responsible for accurate characterization of the wastes. Closure and post-closure maintenance shall conform to Section 2580 (c-3), General Closure Requirements of the Chapter 15. The dischargers shall submit, for approval by the Executive Officer, a work plan consisting of the design drawings and construction specifications for the proposed capping system and post-closure maintenance plan.*
- *The elevated arsenic contaminated soils at other portion of the site need to be considered for remediation of all possible sources that could further pollute the groundwater. These areas with elevated arsenic contaminated soils were discovered in the area of soil borings EB-1 through EB-5, MW-4, MW-5, HB-4, and B-6 based on the analytical results from the site characterization report prepared by ENSR Consulting and Engineering in February and on August 31, 1990.*
- *In the event that additional site cleanup, for the western portion, and other area within the eastern portion of the site, are required or that other monitoring and reporting requirements for these cleanups are required, additional Waster Discharge Requirements shall be issued.*
- The WDR included Monitoring and Reporting Program (MRP) No. 7379.

March 2, 1995 - Regional Board letter approved Post-closure groundwater monitoring program. The letter included the following comment:

- *Upon completion of the three-year period groundwater monitoring program, this Regional Board will evaluate all the data and determine the necessity for continuing of the groundwater monitoring program for the site.*

March 16, 1995 - Regional Board letter approved March 13, 1995 proposal for asphalt concrete pavement over the area of elevated arsenic contaminated soils and residual slag material previously identified.

April 10, 1995 - Regional Board letter stated the following:

- *Based upon this (final inspection conducted on March 29, 1995) and all previous inspection, we have determined that the remediation has been successfully completed in accordance with the approved cap design and this Water Board's requirements. Therefore, we have determined that **no further action will be required for soil and slag remediation at the site.***
- *We will require proof that a "Deed Restriction" has been put in place, which clearly delineates this cap location, and which provides public notice that no penetration or disruption of the cap may occur without the prior written approval of this Board.*
- *Order No. 92-094, prescribes certain requirements pertaining to post-closure maintenance of the cap and groundwater monitoring.*
- *The cap shall be maintained in accordance with the maintenance plan approved by the Board on April 25, 1994.*
- *Groundwater monitoring to be performed for three consecutive years and the results submitted to us for review in accordance with the work plan approved by the Board on March 2, 1995.*

Geology and Physiography

The Site is located in El Segundo, Los Angeles County, California, within the El Segundo Sandhills. Site elevation is approximately 100 feet above mean sea level (msl). Local topography slopes to the southwest at an approximate gradient of 0.008 foot per foot (USGS 1964). Soil types encountered during previous site investigations consist predominately of sand/silty sand from the ground surface to a depth of approximately 65 feet below ground surface (bgs), underlain by clay/silty clay to a depth of 78 feet bgs. Sand, with intermittent clay and silt lenses, underlies the clay/silty clay to a depth of approximately 105 feet bgs. Clay and clayey silt is present from approximately 105 to 110 feet and is underlain by sand/silty sand to a

depth of approximately 132 feet bgs. Silty clay and clayey silt is present from approximately 130 to 147 feet bgs (maximum depth of the investigations).

Hydrology

The Site is located within the Coastal Plain of Los Angeles County, West Coast Subbasin. The West Coast Subbasin, often referred to as the West Coast Basin, covers an area of approximately 142 square miles (DWR 2004). The West Coast Basin is bounded to the north by the Baldwin Hills and the Ballona Escarpment (a bluff just south of Ballona Creek), to the east by the Newport-Inglewood Uplift, to the south by San Pedro Bay and the Palos Verdes Hills, and to the west by Santa Monica Bay (WRD 2004). Aquifers within the West Coast Basin are generally confined (WRD 2004).

The Site is situated in the western portion of the West Coast Basin, inland of the groundwater injection barrier installed along Sepulveda Boulevard. Based on historical information, groundwater beneath the Site was reported to occur in three separate aquifers; the Old Dune Sand, Gage, and Silverado. It was previously thought that the two upper aquifers (the Old Dune Sand and Gage Aquifers) were being monitored at the Site. However, a recent review of monitoring reports prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) for the Honeywell El Segundo Site (Honeywell Site), indicates that another water-bearing zone lies between the Old Dune Sand and Gage Aquifers. MACTEC refers to this water-bearing zone as the "Intermediate Water-bearing Zone" (MACTEC 2008). There is limited published information on this intermediate water-bearing zone (Intermediate Zone).

According to MACTEC, the Old Dune Sand Aquifer (the uppermost water-bearing zone) overlies the Manhattan Beach Aquitard, also referred to as the Bellflower Aquiclude (MACTEC 2008). Based on the boring logs for monitoring wells MW10, MW11, MW12, and MW13 (wells screened in the Intermediate Zone), the thickness of Manhattan Beach Aquitard ranges from approximately 6 to 15 feet in the vicinity of the Site. The Manhattan Beach Aquitard overlies the Intermediate Zone. This water-bearing zone was previously classified as the Gage Aquifer, but has more recently been classified as a separate water hydrostratigraphic unit that is hydraulically isolated from the Gage Aquifer (MACTEC 2008). Based on the boring logs for wells MW10, MW11, MW12, and MW13, the Intermediate Zone is approximately 15 to 34 feet in thickness. Monitoring wells associated with the H. Kramer Site are believed to be screened within the Old Dune Sand Aquifer and Intermediate Zone.

Underlying the Intermediate Zone is the Lakewood Formation Aquitard, which separates the Gage Aquifer from the Intermediate Zone. The Lakewood Formation Aquitard consists of well-bedded clay, silt, and sandy clay deposits with a approximate thickness of 5 to 10 feet (MACTEC 2008).

There are currently 10 monitoring wells associated with the Site (see Figure 2). Monitoring wells MW1, MW2, MW3, MW4, MW7, and MW14 are screened in the Old Dune Sand Aquifer. The remaining four monitoring wells (MW10, MW11, MW12, and MW13) are screened in the Intermediate Zone, which underlies the Old Dune Sand Aquifer. None of the wells appear to be screened in the deeper Gage Aquifer. Monitoring well details are presented as Table 1.

Site Investigations and Remedial Activities

In December 1985, International Technology Corporation (IT) performed a preliminary soil and groundwater assessment at the Site (IT 1986). The assessment included the advancement of two borings (B-1 and B-2) and installation of three groundwater monitoring wells (W-1, W-2, and W-3). These monitoring well designations were later changed to MW1, MW2, and MW3 (see Figure 3). The borings were advanced in the slag pile (former Harshaw waste lagoon) and a total of eight samples were submitted for analysis. Selected samples collected from borings B-1 and B-2 were analyzed for volatile organic compounds (VOCs), base-neutral acids (BNAs), semi-volatile organic compounds (SVOCs), pesticides, and metals. Analytical results did not indicate detectable concentrations of VOCs or pesticides. Samples did indicate some detectable concentrations of SVOCs. Analytical results for metals indicated detectable concentrations of beryllium, cadmium, copper, lead, mercury, and zinc exceeding Total Threshold Limit Concentration (TTLC) values. A soil sample collected from beneath the slag pile (boring B-3 at a depth of 15.5 to 16.0 feet bgs) also indicated an arsenic concentration of 2,060 milligrams per kilogram (mg/kg). The arsenic concentration detected in the soil sample exceeded the TTLC for arsenic of 500 mg/kg. California's Waste Extraction Test (WET) analysis of one of the slag samples (B-1 #1) also indicated beryllium, cadmium, copper, lead, and zinc exceeding Soluble Threshold Limit Concentration (STLC) values.

Groundwater monitoring wells W-1, W-2, and W-3 were installed to depths of 95, 95, and 80 feet bgs, respectively. Based on the groundwater elevation, the flow direction was determined to be to the south/southwest (IT 1986). Water samples collected from the three monitoring wells were analyzed for 17 metals. Groundwater analytical results for arsenic, beryllium, cadmium, lead, mercury and zinc results (metals found

in the soil and slag pile samples above regulatory limits) indicated detectable concentrations of mercury and arsenic. The groundwater sample collected from well W-2 also indicated a mercury concentration of 0.006 milligrams per liter (mg/L). Mercury was not detected in the groundwater samples collected from wells W-1 and W-3. Groundwater samples collected from W-1, W-2, and W-3 indicated arsenic concentrations of 0.21, 19.7, and 0.40 mg/L, respectively.

Groundwater samples collected from wells W-1 and W-3 were also analyzed for VOCs. Analysis of the groundwater sample collected from well W-1 indicated detectable concentrations 1,1,1-trichloroethane (TCA); tetrachloroethene (PCE); and trichloroethene (TCE) of 13, 21, and 110 micrograms per liter ($\mu\text{g/L}$), respectively. The groundwater sample collected from monitoring well W-3 indicated detectable PCE and TCE concentrations of 38 and 84 $\mu\text{g/L}$, respectively. No other VOCs were detected at or above the detection limits. As stated earlier, VOCs were not detected in the soil samples collected from borings B-1 and B-2. The presence of PCE and TCE in well W-3 indicates the source(s) for VOCs in groundwater is offsite and upgradient of the Site (IT 1986). Results of the investigation are documented in the report entitled *Assessment of Potential Soil and Groundwater Contamination at the H. Kramer Site* dated February 1986. The soil sample results are summarized in Table 2.

In March 1988, a Technical Assistance Team (TAT) conducted site assessment activities following a tour of the H. Kramer & Company Facility by personnel from the Los Angeles County Department of Health Services (LADHS), El Segundo Fire Department (ESFD), H. Kramer & Company, and other interested parties. Previous inspections by the ESFD revealed a lack of security at the abandoned facility. The ESFD contacted LADHS regarding hazardous conditions at the Site. LADHS subsequently requested assistance from the United States Environmental Protection Agency (USEPA). During the initial phase of the investigation, TAT learned that H. Kramer & Company had been in bankruptcy since 1985, and the facility was abandoned sometime around 1986 (E&E 1988).

The site assessment activities included the collection of 10 soil and sludge samples (three of which were duplicate samples) from seven locations at the Site. A background sample (BG-1) was also collected from an area next to a nearby business. Four of the sample locations were in the foundation portion (western) portion of the Site. The three remaining sample locations were in and around the slag pile. Drums and laboratory chemicals being stored at the Site were also inventoried at this time. Approximately 75 drums, believed to contain petroleum

based material, were in various stages of decay, were located at the Site (E&E 1988). A total of 61 containers were also profiled and inventoried.

The samples collected from the foundation portion of the Site included: (C-1) composite sample of soil around metal crusher located in northwestern most building; (B-1) grab sample from beneath the eastern bag house dust silo; (F-1) composite sample of material beneath furnace located at the northwest corner of property; and (SP-1) composite sample of cooling pond sludge collected from northeast corner of eastern cooling pond. Approximate sample locations are presented in Figure 4. The samples were analyzed for Title 22 metals, hexavalent chromium, fluoride, and pH. In general, the samples contained elevated concentrations of copper, lead, and zinc (E&E 1988). Some samples also contained elevated concentrations of beryllium and cadmium. Results of the site assessment are presented in the *H. Kramer and Company, Site Assessment, El Segundo, California* letter report dated May 16, 1988. Analytical results for samples collected during the investigation are summarized in Table 3.

In November 1989, an additional site investigation was conducted at the Site to further assess soil and groundwater. The investigation included the advancement of 10 vertical slag borings (SB-1-A, SB-2-A, and SB-3 through SB-9); four slant borings B-3 through B-6); five hand borings (HB-1 through HB-5), and installation of five groundwater monitoring wells (MW4 through MW8). A total of 63 soil samples were submitted for metal analysis. Groundwater samples were also collected from the seven of the eight existing monitoring wells. Well MW7 did not produce sufficient water to sample. All wells, including the three previously installed wells, were developed prior to purging and sampling.

One slag sample from each slag boring (SB-1-A, SB-2-A, and SB-3 through SB-9) was analyzed for total and soluble metals (17 CAM metals, aluminum, iron, and manganese). Soil samples were analyzed for total metals (17 CAM metals, aluminum, iron, and manganese). Soil samples with total metal concentrations greater than ten times the STLC were submitted for WET analysis. Metal results for the soil samples are presented in Table 4. Selected soil samples were also analyzed for VOCs. With the exception of acetone, analysis of the soil samples did not indicate detectable concentrations of VOC at above the detections limits. Acetone was detected in all the soil samples submitted for analysis.

Groundwater samples were analyzed for total metals (17 CAM metals, aluminum, iron, and manganese) and VOCs. Results of this investigation are presented in the

Site Characterization Report for the H. Kramer & Company Facility, El Segundo, California dated February 1990.

In July 1990, a soil investigation was conducted at the Site at the request of Southern California Edison (SCE) and the Los Angeles County Transportation Commission (LACTC). The investigation was performed in the vicinity of a high-voltage power line tower and low-voltage lines. The investigation included the advancement of two soil borings (SB-1 and SB-2) to depths of 30.5 feet bgs, and three borings (EB-3, EB-4, and EB-5) to depths of 15.5 feet bgs (see Figure 3). A total of 24 soil samples were collected for analysis of 17 Title 22 Metals.

The soil borings advanced near the high voltage tower (EB-1 and EB-2) indicated slag debris to a depth of 8 feet bgs, and elevated concentrations of arsenic, zinc, and copper (ENSR 1990). Borings advanced along the low voltage lines (EB-3, EB-4, and EB-5) also appeared to contain slag material. Elevated concentrations of arsenic were detected in samples collected from all three borings.

Based on photoionization detector (PID) readings, one sample (EB-4-10') was submitted for VOC analysis. Analytical results only indicated a 1,1,1-trichloroethane (TCA) concentration of 0.015 mg/kg. At the request of SCE, two soil samples were also analyzed for pH and sulfate. Samples EB1-5' and EB1-10' indicated a pH of 7.9 and 8.4, respectively. Sulfate was detected at concentrations of 67 mg/kg and 330 mg/kg, respectively. Results of the soil investigation are presented in the *Report on Additional Soil Boring Investigation at the Kramer & Company Facility* dated August 31, 1990. Metal analytical results for soil samples collected during the investigation are summarized in Table 4.

In November 1992, two additional groundwater monitoring wells were installed at the Site to further assess groundwater. Soil boring MW-9 was advanced to a total depth of 116 bgs. Soil boring MW-10 was advanced to a depth of 118 feet bgs. The borings were subsequently converted to monitoring wells MW9 and MW10, respectively (see Figure 3). Both wells were thought to be screened within the Gage Aquifer (Ebasco 1993a). Soil samples were not submitted for laboratory analysis during the advancement of borings MW-9 and MW-10.

Following the installation of wells MW9 and MW10, groundwater samples were collected from all monitoring wells and analyzed for arsenic, VOCs, metals, and general chemistry parameters. Samples collected from wells MW9 and MW10 indicated arsenic concentrations of 7,400 and 17 µg/L, respectively. VOC detected

in groundwater samples collected from MW9 and MW10 included cis-1,2-dichloroethene (cis-1,2-DCE); chloroform; carbon tetrachloride; TCE; and trichlorofluoromethane (Freon 11). Metals detected in the samples collected from groundwater monitoring wells MW9 and MW10 included calcium, copper, magnesium, manganese, sodium, and zinc.

A hand auger boring (EHB-1) was also advanced within the slag pile during the investigation at the approximate location shown in Figure 3. The boring was advanced in the vicinity of former soil boring SB-2 to assess the presence of hexavalent chromium which had been previously reported (Ebasco 1993). A total of two slag samples were collected at depths of 0.5 and 5 feet bgs. Analysis of the samples did not indicate the detectable concentrations of hexavalent chromium. Results of the investigation are presented in the *Supplemental Site Investigation November/December 1992* report dated January 14, 1993.

In August 1993, additional site assessment activities were conducted to determine the lateral and vertical extent of the dissolved-phase arsenic concentrations at the Site (Ebasco 1993). Four soil borings (HP-2, HP-3, HP-4, and HP-5) were advanced to depths of 110, 112, 147, and 109 feet bgs, respectively. Soil samples collected during the advancement of the borings indicated arsenic results ranging from non-detect (method detection limit of 1.0 mg/kg) to 360 mg/kg. The highest arsenic concentrations were detected in soil boring HP-4 (130 mg/kg @ 92 feet bgs), and from soil boring HP-5 (360 mg/kg @ 77 feet bgs). Analytical results for soil samples collected during the investigation are presented in Table 4.

In addition, groundwater samples were collected from each soil boring using a Hydropunch sampling device. Samples collected from HP-2, HP-3, and HP-4 did not indicate detectable arsenic concentrations at or above the method detection limit. Groundwater samples collected from boring HP-5 at depths of 90 to 92 feet bgs and 100 to 102 feet bgs indicated arsenic concentrations of 6.0 mg/L and 0.029 mg/L, respectively. The groundwater samples collected using the Hydropunch were also analyzed for VOCs. Analytical results for the groundwater samples indicated detectable concentrations of chloroform; cis-1,2-DCE; 1,1,2,2-tetrachloroethane; PCE; TCE; carbon tetrachloride; and Freon 11.

Soil borings HP-2, HP-3, and HP-4 were subsequently converted to monitoring wells MW11, MW13, and MW12, respectively (see Figure 3). Boring HP-5 was not converted to a monitoring well and was backfilled with a cement grout. Results of the

investigation are presented in the *Phase II Supplemental Site Investigation* report dated October 28, 1993.

In March 1994, a geotechnical investigation was conducted at the Site prior to facilitate the completion of the final cap design. Five soil borings (GB-1 through GB-5) were advanced in the slag pile to determine the depth and geotechnical properties of the slag material (ENSERCH 1994a). Results of the investigation are presented in the letter report *Geotechnical Investigation Performed at H. Kramer Site* dated April 11, 1994.

In September 1994, three additional soil borings were advanced at the Site to verify arsenic concentrations reported during a previous investigation (ENSERCH 1994b). Soil samples were collected from soil borings VB-1, VB-2, and VB-3 at depths of 4.5, 4.5, and 7.5 feet bgs, respectively. The approximate boring locations are shown in Figure 3. Soil samples were analyzed for arsenic by both the TTLC and STLC method. Analytical results did not indicate detectable concentrations of arsenic by either method. Results of the investigation is presented in the letter report *Verification Sampling for Arsenic Concentrations in Soils at H. Kramer & Co. Facility* dated October 13, 1994.

Following the final design and approval, construction of the remedial cap was initiated at the Site in September 1994. Installation of the cap was completed in March 1995. In accordance with the *Asphalt Concrete Pavement Maintenance and Rehabilitation Plan* dated July 24, 1994, the cap is required to be inspected annually to evaluate its structural integrity. Details of the cap construction are presented in the *Remedial Cap Final Closure Report – H. Kramer Site, El Segundo, California* dated May 12, 1995.

In June 2001, a soil boring (MW14) was advanced off-site at the Union Pacific Team Track Area, located adjacent to the Site (CH2MHill 2001a). The soil boring was advanced to a depth of 93.5 feet bgs. A total of nine soil samples were collected during the advancement of the boring and analyzed for total organic carbon (TOC), arsenic, iron, and pH. Analytical results indicated a maximum arsenic and iron concentrations of 186 mg/kg (MW14-60) and 12,600 mg/kg (MW14-7), respectively. TOC ranged from 0.11 to 0.52 percent by weight, and pH ranged from 7.75 to 9.05. Soil sample results for the metal analyses are presented in Table 4.

The soil boring was subsequently converted to groundwater monitoring well MW14 (see Figure 3). Following installation and development, the well was sampled and

analyzed for VOCs, arsenic, boring, and lead. Groundwater samples were also analyzed for pH, total dissolved solids, turbidity, sulfate, and chloride.

VOC analytical results indicated concentrations of PCE (64 µg/L) and TCE (52 µg/L) the maximum contaminant level (MCL) of 5 µg/L. Arsenic was also detected at a concentration (8,330 µg/L) exceeding the MCL of 50 µg/L (CH2MHill 2001a). Results of the investigation are presented in the *Additional Monitoring Well Installation Report* dated July 2001.

Remedial activities were conducted at the Site in July 2001. The remedial action consisted of the excavation and removal of arsenic-impacted soil to a maximum depth of two feet bgs along the northwestern property boundary (CH2MHill 2001b). Approximately 915 tons of soil were excavated, stockpiled, characterized, and subsequently loaded into rail cars for transport. The soil was transported as non-hazardous waste to a disposal facility in Utah. Upon completion of the excavation activities, the area was backfilled with clean fill, compacted, and graded to match previous site conditions. Removal of additional impacted soil was not possible due to the proximity of the excavation to a petroleum pipeline, access road, and powerline pole. Two soil samples collected from the excavation indicated arsenic concentrations of 63 mg/kg and 53 mg/kg at these locations. A summary of the excavation activities is presented in the *Summary of Activities, Arsenic Impacted Soils Removal Report* dated October 2001.

In December 2001, H. Kramer & Company (H. Kramer) leased a portion of the Site to California Storagemasters, a business providing storage for privately owned automobiles, boats, and recreational vehicles (RVs). Prior to occupying the Site, California Storagemasters seal coated the asphalt portions of the cap, striped the surface to facilitate the storage activities, installed a new perimeter fence around the cap, and installed an electronic security gate. Since occupying the Site, California Storagemasters has expanded and paved portions of the property northeast and southwest of the cap.

Supplemental Groundwater Monitoring

Per the Regional Board-approved Program, the monitoring frequency for all parameters was reduced from a semiannual to annual basis beginning in 2002. The objective of the Program is to evaluate changes in groundwater quality following construction of an impermeable cap at the Site in 1995. Based on the elevated arsenic concentrations detected in wells during previous monitoring events,

supplemental monitoring activities were proposed in the *2002 Annual Groundwater Monitoring Report* prepared by Blasland, Bouck & Lee, Inc. (now known as ARCADIS) and dated April 12, 2002.

The most recent supplemental monitoring activities were conducted on September 16, 2008. Groundwater samples were collected from wells MW1, MW2, MW3, MW10, and MW14 and analyzed for dissolved arsenic. Monitoring wells MW4, MW7, MW11, MW12, and MW13 were not sampled during the supplemental monitoring event.

Analytical results from the September 2008 monitoring event indicated dissolved arsenic concentrations ranging from 0.934 milligrams per liter (mg/L) to 17.5 mg/L (well MW2). Monitoring well MW2 is located south/southwest of the remedial cap. Historical arsenic groundwater analytical results are presented in Table 5.

Annual Groundwater Monitoring

The most recent annual monitoring event (March 2009) included the collection and chemical analysis of groundwater samples from ten monitoring wells (MW1, MW2, MW3, MW4, MW7, MW10, MW11, MW12, MW13, and MW14). Groundwater samples were analyzed for selected metals, VOCs, and groundwater quality parameters.

The metals of potential concern for groundwater include arsenic, boron, and lead. The VOCs of potential concern for groundwater include 1,1-dichloroethane; 1,1,1-trichloroethane; TCE; PCE; carbon tetrachloride; chloroform; trichlorofluoromethane; and cis-1,2-DCE. The most prevalent VOCs detected in groundwater at the Site are TCE and PCE. Groundwater samples collected during the most recent monitoring event were also analyzed for selected groundwater quality parameters. The parameters included chloride, sulfate, and TDS. Historical metal (arsenic, boron, and lead) and selected VOC groundwater analytical results are presented in Tables 5 and 6, respectively.

Groundwater samples collected from the Old Dune Sand Aquifer (wells MW1, MW2, MW3, MW4, MW7, and MW14) during the March 2009 monitoring event indicated the following:

- Dissolved arsenic results ranged from non-detect (method detection limit of 0.010 milligrams per liter [mg/L]) to 20.5 mg/L (well MW2). Monitoring well

MW2 is located southwest of the remedial cap. The groundwater sample collected from well MW3, located northeast of the remedial cap, indicated a dissolved arsenic concentration of 19.2 mg/L.

- Dissolved boron concentrations ranged from 0.318 mg/L to 24.9 (well MW2).
- Concentrations of dissolved lead were not detected at or above the method detection limit of 0.0069 mg/L.
- TCE concentrations ranged from 14 micrograms per liter ($\mu\text{g/L}$) to 89 $\mu\text{g/L}$ (well MW4). Monitoring well MW4 is located on-site, adjacent and downgradient of the remedial cap.
- PCE results ranged from non-detect (method detection limit of 0.8 $\mu\text{g/L}$) to 62 $\mu\text{g/L}$ (well MW14). Monitoring well MW14 is located off-site, along the western property boundary, and up/cross gradient of the Site.
- Chloride concentrations ranged from 56.4 mg/L to 914 mg/L (well MW3).
- Sulfate concentrations ranged from 169 mg/L to 1,120 mg/L (well MW2).
- TDS ranged from 539 mg/L to 2,400 mg/L. (well MW3).

In addition to TCE and PCE, the VOC analytical results indicated detectable concentrations of 1,1-dichloroethene and cis-1,2-dichloroethene in wells screened in the Old Dune Sand Aquifer.

Groundwater samples collected from the Intermediate Zone (wells MW10, MW11, MW12, and MW13) during the March 2009 monitoring event indicated the following:

- Dissolved arsenic results ranged from non-detect (method detection limit of 0.010 mg/L) to 2.70 mg/L (well MW10). Monitoring well MW10 is located south/southeast and downgradient of the remedial cap.
- Dissolved boron concentrations ranged from 0.233 mg/L to 5.28 (well MW10).
- Concentrations of dissolved lead were not detected at or above the method detection limit of 0.0069 mg/L.

- TCE concentrations ranged from 3 µg/L to 66 µg/L (well MW13). Monitoring well MW13 is located offsite and upgradient of the Site.
- PCE results ranged from non-detect (method detection limit of 0.8 µg/L) to 13 µg/L (well MW13).
- Chloride concentrations ranged from 112 mg/L to 188 mg/L (well MW11).
- Sulfate concentrations ranged from 181 mg/L to 391 mg/L (well MW12).
- TDS ranged from 797 mg/L to 1,050 mg/L. (well MW10).

In addition to TCE and PCE, the VOC analytical results indicated detectable concentrations of carbon tetrachloride; chloroform; 1,1-dichloroethene; cis-1,2-dichloroethene; and trichlorofluoromethane in wells screened in the Intermediate Zone. Concentrations of carbon tetrachloride, chloroform, and trichlorofluoromethane were not detected in any of the wells screened in the overlying aquifer (Old Dune Sand Aquifer). Evaluation of the areal distribution of the VOCs suggests the primary source may originate off-site.

Groundwater Flow Direction / Gradient

During the most recent monitoring event conducted on March 11, 2009, depth to groundwater in the Old Dune Sand Aquifer ranged from 70.63 to 88.61 feet below the top of the well casings (20.41 to 25.70 feet above mean sea level [msl]). The inferred groundwater flow direction of the Old Dune Sand Aquifer is to the south, at an approximate gradient of 0.0063 foot per foot. Depth to groundwater in the Intermediate Zone ranged from 76.01 to 83.10 feet below the top of the well casings (12.65 to 20.15 feet above msl). The inferred groundwater flow direction of the Intermediate Zone is to the east, at an approximate gradient of 0.022 foot per foot.

According to MACTEC's *First Quarter 2008 Groundwater Monitoring Report* prepared for the Honeywell Site, the groundwater flow direction of the Old Dune Sand Aquifer is eastward with an approximate hydraulic gradient of 0.0017 foot per foot (MACTEC 2008). The groundwater flow direction of the Intermediate Zone is also eastward with an approximate hydraulic gradient of 0.0012 foot per foot. A review of MACTEC's groundwater elevation contour maps indicate the groundwater flow directions of the Old Dune Sand Aquifer and Intermediate Zone are to the southeast in the vicinity of the H. Kramer Site. Copies of the MACTEC groundwater

elevation contour maps (Figures 3 and 4) for the Honeywell Site are included as Attachment A.

Well Redevelopment

ARCADIS redeveloped monitoring wells MW1, MW2, MW3, MW7, MW10, MW11, MW12, MW13, and MW14 to remove any sediment that may have accumulated in the wells, well screens, and filter pack material since the wells were installed. Monitoring well MW4 was not redeveloped due to the limited water column present in the well (approximately 2.06 feet during the March 2009 monitoring event).

Monitoring wells MW2, MW3, MW7, and MW12 were redeveloped on February 25, 2009 using a surge block and air-lift system. Due to access issues, wells MW1, MW10, MW11, MW13, and MW14 were redeveloped on May 12, 2009, using a surge and over-pumping method. A submersible pump was used to surge and pump water from these wells. With the exception of well MW14, a significant decrease in turbidity was observed in each well during the redevelopment activities. Well MW14 dewatered on three separate occasions and the purge water continued to be cloudy.

Well Survey

The top of casing elevations of all monitoring wells associated with the Site (MW1, MW2, MW3, MW4, MW7, MW10, MW11, MW12, MW13, and MW14) were professionally surveyed on March 11, 2009. The wells were resurveyed at the request of the Regional Board, in order to tie these wells into the same benchmark as the monitoring wells installed at the Honeywell El Segundo Site.

Comparison of VOC Concentrations to Honeywell El Segundo Site

In order to compare the VOC concentrations in groundwater at the H. Kramer Site with those at the Honeywell Site, ARCADIS added the First Quarter 2008 analytical results (most recent VOC concentration data available for both Sites) to groundwater concentration maps prepared by MACTEC. These figures (Figures 6 through 15) are included as Attachment A. With the exception of TCE, the concentrations indicate that the Honeywell Site may be the source of the VOCs in groundwater beneath the H. Kramer Site. As stated earlier, concentrations of carbon tetrachloride, chloroform, and trichlorofluoromethane were detected in the Intermediate Zone at the H. Kramer Site but not detected in any of the wells screened in the overlying aquifer (Old Dune

Sand Aquifer). Evaluation of the areal distribution of these VOCs suggests the primary source may originate off-site.

Concentrations of TCE detected in the Old Dune Sand Aquifer and Intermediate Zone beneath the H. Kramer Site indicate another possible off-site source for TCE located upgradient (west/northwest). Analytical results from the March 18, 2008 monitoring event indicated TCE concentrations of 170 µg/L and 67 µg/L in samples collected from wells MW13 and MW14, respectively. Both these wells are located offsite and upgradient of the Site. Monitoring well MW13 is screened in the Intermediate Zone. Well MW14 is screened in the overlying Old Dune Sand Aquifer.

An Environmental Data Resources, Inc. record search requested by ARCADIS did not identify any potential off-site sources for the TCE concentrations. However, a search of California's Geotracker website identified one active environmental case (Apollo Associates) located up/cross gradient of the Site. A TCE groundwater investigation is also being conducted at the Aerospace Corporation property. The Regional Board recently requested permission for Aerospace Corporation's consultant to gauge selected H. Kramer wells. The Geotracker website does not list an active case for that site. Additional research will be required to determine if either of these sites could be the source of the TCE detected in groundwater beneath the H. Kramer Site.

Summary

- The Site is currently owned by H. Kramer & Company of Chicago, Illinois. There is an existing cost sharing agreement between H. Kramer and Chevron EMC for present and future environmental liability management at the Site.
- Site investigations and remedial activities have been conducted at the Site since 1985, and include the construction of an impermeable cap in 1995.
- Approximately 158 slag and soil samples have been collected for analysis of metals. Approximately 33 of these samples were collected from the foundation portion of the Site.
- A total of 14 groundwater monitoring wells have been installed at the Site. Four of the wells (MW5, MW6, MW8, and MW9) have been properly abandoned.

- It was previously thought that two upper aquifers (the Old Dune Sand and Gage Aquifers) were being monitored at the Site. However, a recent review of monitoring reports prepared by MACTEC for the Honeywell Site, indicates that another water-bearing zone lies between the Old Dune Sand and Gage Aquifers. MACTEC refers to this water-bearing zone as the “Intermediate Water-bearing Zone”.
- There are currently 10 monitoring wells associated with the Site. Based on the well construction logs, monitoring wells MW1, MW2, MW3, MW4, MW7, and MW14 are screened in the Old Dune Sand Aquifer. The remaining four monitoring wells (MW10, MW11, MW12, and MW13) are screened in the Intermediate Zone, which underlies the Old Dune Sand Aquifer. None of the wells appear to be screened in the deeper Gage Aquifer.
- Per the Regional Board-approved Program, the monitoring frequency for all parameters was reduced from a semiannual to annual basis beginning in 2002. Based on the elevated arsenic concentrations detected in wells, supplemental monitoring of arsenic in selected wells is also being performed on an annual basis.
- A review of MACTEC’s groundwater elevation contour maps for the Honeywell Site indicate the groundwater flow directions of the Old Dune Sand Aquifer and Intermediate Zone are to the southeast in the vicinity of the H. Kramer Site. Based on depth to groundwater data collected at the H. Kramer Site during the March 2009 monitoring event, the inferred groundwater flow direction of the Old Dune Sand Aquifer is to the south. The inferred groundwater flow direction of the Intermediate Zone is to the east.
- Groundwater samples collected from the Old Dune Sand Aquifer (wells MW1, MW2, MW3, MW4, MW7, and MW14) during the most recent monitoring event (March 2009) indicated detectable concentrations of TCE; PCE; 1,1-dichloroethene; and cis-1,2-DCE.
- Groundwater samples collected from the Intermediate Zone (wells MW10, MW11, MW12, and MW13) during the March 2009 monitoring event indicated detectable concentrations of TCE; PCE; carbon tetrachloride; chloroform; 1,1-dichloroethene; cis-1,2-DCE; and trichlorofluoromethane (Freon 11).

- Concentrations of carbon tetrachloride, chloroform, and Freon 11 were detected in the Intermediate Zone at the H. Kramer Site during the most recent monitoring event (March 2009) but not detected in any of the wells screened in the overlying aquifer (Old Dune Sand Aquifer). Evaluation of the areal distribution of these VOCs suggests the primary source may originate off-site.
- The most prevalent VOCs detected in groundwater at the Site are TCE and PCE. With the exception of TCE, the concentrations indicate that the Honeywell Site may be the source of the VOCs in groundwater beneath the H. Kramer Site.
- Concentrations of TCE detected in the Old Dune Sand Aquifer and Intermediate Zone beneath the H. Kramer Site indicate another possible off-site source for TCE located upgradient (west/northwest). The highest TCE concentration (170 µg/L) during the March 2008 monitoring event was detected in well MW13. Well MW13 is located offsite and upgradient of the Site. Additional research will be required to determine if another potential source exists upgradient.

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If you have any questions regarding this summary of site investigations and remedial activities, please contact me at 714.730.9052 Ext 38.

Sincerely,

ARCADIS



Allen C. Just, P.E.
Principal Engineer



Attachments

- Figure 1 Topographic Map of Site Location and Vicinity
- Figure 2 Site Plan
- Figure 3 Soil Boring and Sample Locations
- Figure 4 Sample Collection Locations
- Table 1 Monitoring Well Details
- Table 2 Slag and Soil Analytical Results
- Table 3 Grab Sample Analytical Results
- Table 4 Metal Concentrations in Soil
- Table 5 Metal Concentrations and Other Groundwater Parameters
- Table 6 VOC Concentrations in Groundwater
- Attachment A Figures - Honeywell El Segundo Site

Copies:

John MacLeod, Chevron EMC, San Ramon, CA
Bill O'Brien, H. Kramer & Company, Chicago, IL

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Attachments

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Figures

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Tables

TABLE 1
MONITORING WELL DETAILS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Well I.D.	Aquifer Monitored	Date Completed	Top of Casing Elevation (feet-AMSL)	Well Diameter (inches)	Total Well Depth (feet-BGS)	Screen Length (feet)	Screened Interval (feet-BGS)	Screen Slot Size (inches)	Filter Pack Interval (feet-BGS)	Filter Pack Material	Bentonite Seal (feet-BGS)
MW1	Old Dune Sand	12/03/85	104.06	4	95	20	75 - 95	NA	69 - 95	No. 3 Monterey	67 - 69
MW2	Old Dune Sand	12/04/85	100.86	4	95	21	74 - 95	NA	65 - 95	No. 3 Monterey	63 - 65
MW3	Old Dune Sand	12/06/85	96.33	4	80	20	60 - 80	NA	54 - 80	No. 3 Monterey	52 - 54
MW4	Old Dune Sand	11/20/89	94.55	4	75	30	45 - 75	0.020	40 - 75	No. 3 Monterey	37 - 40
MW7	Old Dune Sand	11/16/89	110.27	4	95	30	65 - 95	0.020	60 - 96	No. 3 Monterey	57 - 60
MW10	Intermediate Zone	11/14/92	96.25	4	111	20	91 - 111	0.020	81.5 - 118	No. 3 Lonestar	76 - 81.5
MW11	Intermediate Zone	08/09/93	95.75	4	105	20	85 - 105	0.020	78.5 - 107	No. 3 Lonestar	74 - 78.5
MW12	Intermediate Zone	08/13/93	100.86	4	128	20	108 - 128	0.020	98.5 - 130	No. 3 Lonestar / No. 30 sand	93.5 - 98.5
MW13	Intermediate Zone	08/19/93	94.06	4	110	15	95 - 110	0.020	87.5 - 112	No. 3 Lonestar / No. 30 sand	82 - 87.5
MW14	Old Dune Sand	06/07/01	100.56	4	90	20	70 - 90	0.020	64 - 91	No. 3 Lonestar	60 - 64

LEGEND

feet-AMSL = Feet above mean sea level
feet-BGS = Feet below ground surface
NA = Not available

NOTES:

- (1) All elevations are in feet relative to mean sea level.
- (2) Wells professionally surveyed by Towill, Inc. on March 11, 2009.
- (3) Survey benchmark is L&DPW Benchmark No. Y11740, located in south curb, corner of Rosecrans Avenue and Oak Avenue (elevation = 165.086; NAVD 88 datum).

TABLE 2
SLAG AND SOIL ANALYTICAL RESULTS
H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Sample ID	Location	Sample Depth (feet-bgs)	Date Collected	Total Concentration of Selected Metals													
				Antimony	Arsenic	Barium	Beryllium	Cadium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Silver	Vanadium	Zinc
Total Threshold Limit Concentration (TTLC)				500	500	10000	75	100	2500	8000	2500	1000	20	2000	500	2400	5000
W-1 #1	MW-1	4.0 - 5.5	12/02/85	TR<1	11	58	TR<1	1	7	3	52	3	1	4	<0.1	16	16
B-1 #1	B-1	4.0 - 5.5	12/03/85	11	31	190	98	15	50	22	10200	3000	60	106	1.5	23	63600
B-1 #3	B-1	15.5 - 16.0	12/03/85	50	2060	58	TR<1	1	8	4	68	20	9	7	<0.1	13	209
B-1 #4	B-1	19.5 - 21.0	12/03/85	<5	3.6	12	0.37	<0.3	2.9	1.7	11	6.8	0.004	5.1	0.7	TR<10	9.8
B-1 #5	B-1	24.5 - 26.0	12/03/85	TR<0.5	1.7	13	TR<0.3	<0.3	3.0	TR<1	22	5.8	0.014	2.9	0.8	TR<10	14
B-2 #1	B-2	4.5 - 6.0	12/04/85	<1	40	246	93	17	44	28	9700	2700	67	155	3	25	79000
B-2 #3	B-2	14.0 - 15.5	12/04/85	6	136	167	TR<1	3	18	9	51	8	3	12	<0.1	35	111
B-2 #4	B-2	19.0 - 20.5	12/04/85	TR<0.5	3.2	75	0.6	1.5	5.9	6.6	13	14	0.007	7.3	1.6	TR<10	37
B-2 #5	B-2	24.0 - 25.5	12/04/85	<0.5	2.5	80	0.8	2.2	7.5	11	20	20	0.020	13	2.0	TR<10	47

LEGEND

- feet-bgs = Feet below ground surface
- NA = Not applicable / analyzed
- <Number = Not detected at or above stated practical quantitation limit
- TR<Number = Constituent detected at a trace concentration that could not be quantified

**TABLE 3
GRAB SAMPLE ANALYTICAL RESULTS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA**

Sample ID	Date Collected	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	pH (Std Units)	Fluoride (mg/kg)	Hex Cr (mg/kg)
TTL (mg/kg)		500	500	10000	75	100	2500	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	NA	NA	NA
D-1	03/14/88	<20.0	<20.0	379	114	3.2	63.4	<2.0	21200	2900	0.42	17.5	270	<20.0	<2.0	<20.0	31.8	99800	10.09	15.7	2.1
S-1	03/14/88	<20.0	<20.0	682	178	<2.0	51.9	<2.0	13600	3060	0.89	17.6	416	<20.0	<2.0	<20.0	29.9	137000	10.98	11.3	1.5
S-1-D	03/14/88	<20.0	<20.0	533	146	<2.0	41.2	<2.0	9970	2680	1.19	17.6	260	<20.0	<2.0	<20.0	24.6	102000	10.77	14.9	1.0
P-1	03/14/88	<20.0	<20.0	326	283	<2.0	23.0	<2.0	8450	1600	0.65	8.2	229	<20.0	<2.0	<20.0	35.3	90800	11.16	<10.0	<1.0
C-1	03/14/88	<20.0	<20.0	18.3	<2.0	68.4	196	<2.0	119000	48800	9.00	<2.0	271	<20.0	<2.0	<20.0	14.9	27200	9.14	<10.0	<1.0
B-1	03/14/88	<20.0	<20.0	9.5	7.3	909	17.2	<2.0	8900	43500	9.60	<2.0	40.0	<20.0	<2.0	<20.0	<2.0	473000	9.35	287	<1.0
F-1	03/14/88	<20.0	<20.0	149	56.9	22.7	69.5	<2.0	130000	11600	2.20	<2.0	930	<20.0	<2.0	<20.0	12.4	96600	10.52	10.52	<1.0
F-1-D	03/14/88	<20.0	<20.0	144	86.2	15.8	55.0	<2.0	159000	11800	2.80	<2.0	1,180	<20.0	<2.0	<20.0	10.1	94800	10.61	10.61	<1.0
SP-1	03/14/88	<20.0	<20.0	56.9	<2.0	15.3	6.4	<2.0	1,640	2490	0.10	<2.0	14.0	<20.0	<2.0	<20.0	<2.0	15700	9.78	9.78	<1.0
SP-1-D	03/14/88	<20.0	<20.0	61.2	<2.0	7.3	2.9	<2.0	959	1790	0.05	<2.0	7.2	<20.0	<2.0	<20.0	<2.0	6570	9.73	9.73	<1.0
BG-1	03/14/88	<20.0	<20.0	24.6	<2.0	<2.0	8.9	<2.0	46.5	32.1	<0.04	<2.0	4.1	<20.0	<2.0	<20.0	10.1	103	9.19	9.19	<1.0

LEGEND

- Hex Cr = Hexavalent chromium
- mg/kg = Milligrams per kilogram
- TTL = Total Threshold Limit Concentration
- <Number = Analyte not detected at or above stated detection limit
- NA = Not applicable / available
- D-1 = Surface composite of drainage area; southeast corner of slag pile
- S-1 = Surface composite of slag pile; collected from four compass points of slag pile
- S-1-D = Field duplicate of S-1
- P-1 = Grab sample from excavated area near the west end of slag pile; approximately 4 feet bgs
- C-1 = Composite sample of soil around metal crusher located in northeastern most building
- B-1 = Grab sample collected from beneath eastern baghouse dust silo
- F-1 = Composite sample of material beneath furnace located at the northwest corner of property
- F-1-D = Field duplicate of F-1
- SP-1 = Composite sample of cooling pond sludge; collected from northeast corner of eastern cooling pond
- SP-1-D = Field duplicate of SP-1
- BG-1 = Background sample collected from an area next to Eaton Consolidated Controls Products driveway at the end of Douglas Street

**TABLE 4
METAL CONCENTRATIONS IN SOIL
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA**

Sample ID	Location	Sample Depth	Date Collected	Method	Units	Sb	As	Ba	Be	Cd	Cr	Hex Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Al	Fe	Mn
Total Threshold Limit Concentration (TTLIC)					mg/kg	500	500	10000	75	100	500	NA	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	NA	NA	NA
Soluble Threshold Limit Concentration (STLC)					mg/L	15	5	100	0.75	1	5	NA	80	25	5	0.2	350	20	1	5	7	24	250	NA	NA	NA
SB-1A-5	SB-1-A	5	11/13/89	Total	mg/kg	<100.0	16	310	230	6	37	<1.0	28	12000	2500	0.18	33	310	<0.1	<5.0	<1.0	27	65000	18000	31000	41000
SB-1A-5	SB-1-A	5	11/13/89	Wet	mg/L	4.4	0.53	8	6.1	0.4	1	<0.05	0.8	68	130	<0.005	1.1	4.3	0.03	<0.2	<0.3	0.6	3400	530	1400	140
SB-1B-15	SB-1-B	15	11/13/89	Total	mg/kg	<1.0	2100	45	0.3	<0.05	5.5	<1.0	4.7	15	2.6	0.15	0.07	5.3	<0.1	<0.05	<1.0	13	24	7400	9700	380
SB-1B-15	SB-1-B	15	11/13/89	Wet	mg/L		370																			
SB-1B-20	SB-1-B	20	11/13/89	Total	mg/kg	65																				
SB-1B-25	SB-1-B	25	11/13/89	Total	mg/kg	1.4																				
SB-1B-30	SB-1-B	30	11/13/89	Total	mg/kg	<1.0	2.5	15	0.13	0.16	5	<1.0	1.5	6.1	1.1	0.08	0.18	4.9	0.5	<0.05	<1	8.8	13	2000	4900	52
SB-2-5'	SB-2	5	11/15/89	Total	mg/kg	<1.0	3.7	68	47	2.2	8.2	1.21	6.3	3300	700	0.16	11	280	1.1	0.72	<1.0	3.6	30000	9600	19000	1200
SB-2-5'	SB-2	5	11/15/89	Wet	mg/L	3.3	0.53	9	5.3	0.4	0.7	<0.05	0.6	16	69	<0.005	2.6	11	<0.01	<0.2	<0.3	<0.2	3100	810	1100	93
SB-2-16'	SB-2	16	11/15/89	Total	mg/kg	5	200	21	18	0.78	13	<1.0	5	1700	420	0.04	6.3	39	1.4	0.25	<1.0	4.1	20000	4400	19000	400
SB-2-16'	SB-2	16	11/15/89	Wet	mg/L		130							<0.50	5.1								2500			
SB3-5'	SB-3	5	11/16/89	Total	mg/kg	<5.0	3.1	501	106	29.5	19.3	<1.0	17	3000	2450	0.36	24.4	116	2	1.9	<1.0	17.5	76000	10600	22100	1430
SB3-5'	SB-3	5	11/16/89	Wet	mg/L	0.76	2.4	14.4	3.9	4.1	0.72	<0.05	0.57	101	259	<0.005	0.84	2.4	2.1	<0.05	<10.0	0.26	6830	189	623	44.8
SB3-15'	SB-3	15	11/16/89	Total	mg/kg	102	1000	74.3	0.22	<0.49	7.9	<1	10.6	22	5.2	0.03	<1.9	4.6	0.9	0.97	<1.0	13.8	61	2910	5630	1110
SB3-15'	SB-3	15	11/16/89	Wet	mg/L	8.9	152	4	<0.01	<0.025	0.23	<0.05	0.61	0.099	<0.25	<0.005	<0.1	<0.2	<1.0	<0.05	<10.0	0.64	4.1	32.3	160	47.1
SB3-20'	SB-3	20	11/16/89	Total	mg/kg	<4.9	2800	25.6	<0.2	<0.49	6.7	<1.0	2.8	36.2	5.5	<0.02	<2.0	6.5	<0.1	<0.98	<1.0	12.9	75.6	3420	6010	104
SB3-20'	SB-3	20	11/16/89	Wet	mg/L		12																			
SB3-25'	SB-3	25	11/16/89	Total	mg/kg		3.8																			
SB3-30'	SB-3	30	11/16/89	Total	mg/kg	<5.0	14	23.1	<0.2	<0.5	4.7	<1.0	1.4	13.8	5.6	0.03	<2.0	4.6	0.1	<1.0	<1.0	6.3	56.8	2120	3380	78.7
SB3-30'	SB-3	30	11/16/89	Wet	mg/L	0.9	<0.50	2.3	<0.010	<0.025	0.1	<0.05	0.09	0.73	0.63	<0.005	<0.10	<0.20	<1.0	<0.050	<10.0	0.15	9.2	10.2	14	5.2
SB4-10'	SB-4	10	11/17/89	Total	mg/kg	<4.9	5.1	155	53.6	6.5	74.6	<1.0	13.1	4860	1310	0.09	15.9	120	1.3	1.8	<1.0	15.2	39500	10300	19000	1480
SB4-10'	SB-4	10	11/17/89	Wet	mg/L	1.3	1.5	4.9	2.7	0.72	1.7	<0.05	0.05	142	53.8	0.005	1.3	2.9	2.7	<0.05	<10	0.44	2740	315	903	98.2
SB4-15'	SB-4	15	11/17/89	Total	mg/kg	196	11	36.7	<0.05	<0.49	4.8	<1.0	1.7	21.4	<4.9	0.04	<2.0	<3.9	17	<0.98	<1.0	7.1	36.9	2200	4260	93.6
SB4-15'	SB-4	15	11/17/89	Wet	mg/L	41													0.02							
SB4-30'	SB-4	30	11/17/89	Total	mg/kg	180	61	23	0.16	0.09	5	<1.0	1.4	6.5	1.0	0.04	0.7	5.3	19	<0.05	<1.0	7.1	9.4	4500	5300	77
SB4-30'	SB-4	30	11/17/89	Wet	mg/L	36	5.1												0.13							
SB5-5'	SB-5	5	11/17/89	Total	mg/kg	<4.9	2.8	129	49	5.4	19.5	<1.0	13.2	4190	1100	0.09	18.3	116	1	3.3	<1.0	13.5	38200	9260	16800	1720
SB5-5'	SB-5	5	11/17/89	Wet	mg/L	3.3	1.5	4	2.4	1.7	1.1	<0.05	0.68	166	97.4	<1.005	1.5	3.7	2.2	<0.05	<10	0.42	4040	281	816	101
SB5-18'	SB-5	18	11/17/89	Total	mg/kg	<4.9	1500	41.3	0.2	<0.49	12	<1.0	2.8	19.9	5	0.02	<2.0	6	<0.1	<0.98	<1.0	15.7	31.1	6560	9340	85.4
SB5-18'	SB-5	18	11/17/89	Wet	mg/L		140																			
SB6-5'	SB-6	5	11/17/89	Total	mg/kg	17	16	138	21.2	8.6	10	<1.0	3.6	53800	713	0.80	4	80.5	1	3.1	<1.0	8.4	41400	6420	19400	696
SB6-5'	SB-6	5	11/17/89	Wet	mg/L	7.4	0.91	6.1	1.5	1.5	0.63	<0.05	0.57	178	49	<0.005	0.7	2.8	1.6	<0.05	<10	0.61	2460	272	1040	53.9
SB6-15'	SB-6	15	11/17/89	Total	mg/kg	<4.9	220	49.4	0.32	<0.49	5.9	<1	4.0	13.5	<4.9	<0.02	<2	6.30	<0.1	<0.99	<1.0	13.2	23.7	4710	5310	283
SB6-15'	SB-6	15	11/17/89	Wet	mg/L		48																			
SB6-20'	SB-6	20	11/17/89	Total	mg/kg		0.60																			
SB6-25'	SB-6	25	11/17/89	Total	mg/kg		1.3																			
SB6-30'	SB-6	30	11/17/89	Total	mg/kg	<4.9	2.4	6.9	<0.2	<0.49	3.3	<1.0	<0.99	10.5	<4.9	<0.02	<2.0	<4.0	<1.0	<0.99	<1.0	5.3	15.7	1220	2270	16.2
SB8-10'	SB-8	10	11/22/89	Total	mg/kg	1000	1.1	63	30	1.3	16	<1.0	5.9	1800	440	0.06	5.1	43	2.3	3.7	<1.0	4.6	22000	8100	16000	1700
SB8-10'	SB-8	10	11/22/89	Wet	mg/L	290	0.12	5.9	4.3	<0.2	0.6	<0.05	0.81	<0.5	39	<0.005	0.45	6.2	<0.01	<0.2	<0.3	<0.2	2400	400	1100	200
SB9-3'	SB-9	3	11/22/89	Total	mg/kg	120	17	100	44	2.3	11	<1.0	9.2	3200	1200	0.14	9.3	90	0.5	25	<1.0	6.2	25000	12000	23000	2200
SB9-3'	SB-9	3	11/22/89	Wet	mg/L	89	0.04	6.6	4.2	<0.2	<0.2	<0.5	1.2	30	97	<0.005	1	5.2	0.05	<0.2	<0.3	<0.2	3500	360	1100	150
SB10-10'	SB-10	10	11/22/89	Total	mg/kg	<1.0	0.68	44	16	0.79	5.6	<1.0	5.3	1900	800	0.02	5.7	44	0.3	0.52	<1.0	3.4	24000	6000	9800	1500
SB10-10'	SB-10	10	11/22/89	Wet	mg/L	<1.0	0.19	5.6	2.5	<0.2	0.94	<0.05	0.72	150	120	<0.005	1	5.1	0.06	<0.2	<0.3	0.22	3200	380	1100	150
SB10-16'	SB-10	16	11/22/89	Total	mg/kg	370	19	38	5.3	0.33	5.1	<1.0	2.7	300	110	<0.02	2.4	12	22	0.11	<1.0	6.4	4000	3400	5400	290
SB10-16'	SB-10	16	11/22/89	Wet	mg/L	27	0.046							7.7	2.6				0.03				110			
SB10-30'	SB-10	30	11/22/89	Total	mg/kg	240	180	31	0.17	0.08	4.8	<1.0	1.8	3.8	1.6	0.03	0.57	5.1	53	<0.05	<1.0	6.7	9.7	3400	5400	110

TABLE 4
METAL CONCENTRATIONS IN SOIL
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Sample ID	Location	Sample Depth	Date Collected	Method	Units	Sb	As	Ba	Be	Cd	Cr	Hex Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Al	Fe	Mn
Total Threshold Limit Concentration (TTLIC)					mg/kg	500	500	10000	75	100	500	NA	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	NA	NA	NA
Soluble Threshold Limit Concentration (STLC)					mg/L	15	5	100	0.75	1	5	NA	80	25	5	0.2	350	20	1	5	7	24	250	NA	NA	NA
SB10-30'	SB-10	30	11/22/89	Wet	mg/L	17	14												0.31							
SB10-35'	SB-10	35	11/22/89	Total	mg/kg	92	82																			
SB10-40'	SB-10	40	11/22/89	Total	mg/kg	40	100																			
MW4-5'	MW-4	5	11/20/89	Total	mg/kg	5.2	2.3	33.7	<0.19	<0.49	7.5	<1.0	2.6	11.3	16.0	0.03	<1.9	8.8	<0.1	<0.97	<1.0	16.3	25	2510	5640	68.8
MW4-20'	MW-4	20	11/20/89	Total	mg/kg	<4.8	430	25.1	<0.19	<0.48	5	<1.0	1.9	8.8	<4.8	0.02	<1.9	4.8	<0.1	<0.97	<1.0	8.2	13.1	2630	4310	95.6
MW4-20'	MW-4	20	11/20/89	Wet	mg/L		54																			
MW4-20xxx	MW-4	20	11/20/89	Total	mg/kg	19.5	350	30	<0.19	<0.48	5.3	<1.0	2.4	27.5	<4.8	0.22	<1.9	3.9	0.1	<0.97	<1.0	8.9	25.4	2780	4730	94.9
MW4-25'	MW-4	25	11/20/89	Total	mg/kg		94																			
MW4-30'	MW-4	30	11/20/89	Total	mg/kg		58																			
MW5-5'	MW-5	5	11/17/89	Total	mg/kg	1780	1300	52.6	<0.2	0.78	7.3	<1.0	3.5	45.7	13.1	5.8	<2.0	9.6	300	1	<1.0	12.5	76.5	2980	7140	134
MW5-5'	MW-5	5	11/17/89	Wet	mg/L	380	82																			
MW5-10'	MW-5	10	11/17/89	Total	mg/kg	<1	2.5												<0.10							
MW5-15'	MW-5	15	11/17/89	Total	mg/kg	<1	1.3												<0.10							
MW5-20'	MW-5	20	11/17/89	Total	mg/kg	<5.0	45	11.1	<0.2	<0.5	4.3	<1.0	1.5	9.7	<5.0	<0.02	<2.0	<4.0	<0.1	<0.99	<1	7.1	14.1	1880	3200	44
MW5-20'	MW-5	20	11/17/89	Wet	mg/L		0.036																			
MW6-5	MW-6	5	11/17/89	Total	mg/kg	<1.0	1.3	29	0.21	0.1	5.47	<1.0	2.48	7.53	1.66	0.02	0.09	4.35	<0.1	<0.05	<1.0	11	16	8100	6100	150
MW6-20	MW-6	20	11/17/89	Total	mg/kg	<1.0	3.9	13	0.07	0.07	2.97	<1.0	0.83	5.41	1.11	0.03	0.11	2.94	<0.1	<0.05	<1.0	3.92	14	1700	3500	34
MW7-5'	MW-7	5	11/16/89	Total	mg/kg	<1.0	1.3	14	0.13	<0.05	3.6	<1.0	1.4	4.6	1.4	0.02	0.05	3.3	<0.1	<0.05	<1.0	7.5	8.9	2300	4700	50
MW7-20'	MW-7	20	11/16/89	Total	mg/kg	<1.0	0.95	6.1	<0.05	<0.05	1.5	<1.0	0.47	12	0.54	0.02	0.05	2	<0.1	<0.05	<1.0	2.3	15	690	1800	20
MW7-20A'	MW-7	20	11/16/89	Total	mg/kg	<1.0	0.98	6.7	<0.05	<0.05	1.9	<1.0	0.53	7.6	0.59	0.02	0.05	2.1	<0.1	<0.05	<1.0	2.5	7.1	840	1900	22
MW8-5	MW-8	5	11/14/89	Total	mg/kg	<1.0	1.9	19	0.1	0.07	6.1	<1.0	2	3.6	1.1	<0.02	<0.05	3.2	<0.1	<0.05	<1.0	11	8.5	2700	8400	110
MW8-20	MW-8	20	11/14/89	Total	mg/kg	<1.0	1.3	9.8	0.06	<0.05	4.7	<1.0	0.87	7.5	1.8	<0.02	<0.05	2.9	<0.1	<0.05	<1.0	4.3	21	1100	2600	31
B3-5	B-3	5	11/14/89	Total	mg/kg	<1.0	0.96	28	0.14	0.08	6.1	<1.0	2.2	17	1.4	<0.02	0.11	4	<0.1	<0.05	<1.0	12	19	3400	9300	139
B3-20	B-3	20	11/14/89	Total	mg/kg	<1.0	0.89	14	0.07	0.06	6.5	<1.0	1.3	13	0.86	<0.02	0.05	3.9	<0.1	<0.05	<1.0	6.8	9.8	2200	4000	55
B4-5	B-4	5	11/14/89	Total	mg/kg	<1.0	0.92	27	0.13	0.08	5.8	<1.0	2.3	3.3	1.4	<0.02	0.08	3.8	<0.1	<0.05	<1.0	11	10	3200	7800	150
B4-20	B-4	20	11/14/89	Total	mg/kg	<1.0	1.1	21	0.11	0.07	5.4	<1.0	1.8	6.7	1.4	0.02	0.1	3.6	<0.1	<0.05	<1.0	8.5	14	3100	5200	130
B-5-5'	B-5	5	11/15/89	Total	mg/kg	<1.0	0.69	46	0.14	0.06	6.1	<1.0	2.5	4.4	1.4	<0.02	0.17	5.5	<0.1	<0.05	<1.0	10	11	3400	7500	150
B-5-20'	B-5	20	11/15/89	Total	mg/kg	<1.0	1.2	30	0.19	0.07	9.3	<1.0	3.5	4.4	1.5	<0.02	0.16	5.9	<0.1	<0.05	<1.0	13	12	5000	8100	170
B-5-20A'	B-5	20	11/15/89	Total	mg/kg	<1.0	1.4	33	0.21	0.08	10	<1.0	3.5	4.4	1.6	<0.02	0.14	5.9	<0.1	<0.05	<1.0	14	12	5200	8400	180
B-6-5'	B-6	5	11/15/89	Total	mg/kg	<1.0	270	26	0.16	<0.05	4.7	<1.0	3.2	6.4	1.3	0.05	0.17	4.4	<0.1	<0.05	<1.0	9.7	14	3000	5900	150
B-6-5'	B-6	5	11/15/89	Wet	mg/L		17																			
B-6-20'	B-6	20	11/15/89	Total	mg/kg	<1.0	5.9	11	0.06	<0.05	3.1	<1.0	0.7	2.6	0.79	0.02	0.1	2.8	<0.1	<0.05	<1.0	3.8	5.2	1200	2500	24
B-6-20A'	B-6	20	11/15/89	Total	mg/kg	<1.0	1.2	19	0.13	<0.05	5	<1.0	1.2	4.8	1.1	<0.02	0.17	4.1	<0.1	<0.05	<1.0	6.5	9	2700	3800	60
HB-1-1'	HB-1	1	11/15/89	Total	mg/kg	2.8	1.5	32	0.23	0.06	5	<1.0	1.8	21	4	0.06	0.59	4.4	<0.1	0.14	<1.0	8.8	46	1800	4600	500
HB-1-5'	HB-1	5	11/15/89	Total	mg/kg	<1.0	0.99	36	0.14	<0.05	5.3	<1.0	2.2	9.9	2.6	<0.02	0.26	4	<0.1	<0.05	<1.0	7.9	16	2200	4300	110
HB-2-1'	HB-2	1	11/15/89	Total	mg/kg	25	6.3	28	0.16	2.1	12	<1.0	3.1	22	7.5	0.26	7.6	22	0.1	0.09	<1.0	9.7	67	2600	12000	180
HB-2-5'	HB-2	5	11/15/89	Total	mg/kg	9	47	21	0.12	0.14	4.8	<1.0	2.4	8.7	55	0.15	0.2	4	<0.1	0.1	<1.0	8	14	1900	4100	87
HB-3-1'	HB-3	1	11/16/89	Total	mg/kg	<1.0	0.98	23	0.15	0.05	4.1	<1.0	1.8	2.8	1.5	<0.02	1.1	3.2	<0.1	<0.05	<1.0	9.9	8.2	3100	5300	110
HB-3-5'	HB-3	5	11/16/89	Total	mg/kg	<1.0	1.2	13	0.11	<0.05	3	<1.0	1.1	23	1.6	0.3	0.25	2.2	<0.1	<0.05	<1.0	6.4	16	1900	3600	39
HB4-1'	HB-4	1	11/17/89	Total	mg/kg	17.1	24	63.1	1	0.8	10.6	<1.0	5.2	613	77.7	0.07	<2.0	20.4	1.6	<0.98	<1.0	15.6	847	<9.8	6320	263
HB4-1'	HB-4	1	11/17/89	Wet	mg/L									6.6	3.2								90			
HB4-5'	HB-4	5	11/17/89	Total	mg/kg	30.8	480	34.5	<0.2	<0.5	4.1	<1.0	2.1	10.7	<5.0	0.04	<2.0	<4	0.09	<0.99	<1.0	8.8	19	1780	3970	150

**TABLE 4
METAL CONCENTRATIONS IN SOIL
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA**

Sample ID	Location	Sample Depth	Date Collected	Method	Units	Sb	As	Ba	Be	Cd	Cr	Hex Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Al	Fe	Mn
Total Threshold Limit Concentration (TTLIC)					mg/kg	500	500	10000	75	100	500	NA	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	NA	NA	NA
Soluble Threshold Limit Concentration (STLC)					mg/L	15	5	100	0.75	1	5	NA	80	25	5	0.2	350	20	1	5	7	24	250	NA	NA	NA
HB4-5'	HB-4	5	11/17/89	Wet	mg/L		57																			
HB5-1'	HB-5	1	11/17/89	Total	mg/kg	334	79	58.8	0.84	2.1	36	<1.0	3.6	196	118	0.07	3.1	7.5	5.6	<0.99	<1.0	10.8	1020	3020	5390	169
HB5-1'	HB-5	1	11/17/89	Wet	mg/L	28	3.1								?											
HB5-5'	HB-5	5	11/17/89	Total	mg/kg	87.8	20	22.5	<0.19	<0.48	4.1	<1.0	2.3	909	<4.8	0.11	<1.9	3.9	120	<0.96	<1.0	6.3	46.6	1590	3340	55.6
EB-1-1	EB-1	1	07/27/90	Total	mg/kg	<5.0	22	27	3.8	0.61	6.4		3.9	160	35	<0.10	<0.5	5.7	<2.5	<1.0	<5.0	7.9	1700			
EB-1-5	EB-1	5	07/27/90	Total	mg/kg	470	67	51	6.7	0.90	6.4		4.9	340	74	0.4	<0.5	9.9	<2.5	24	<5.0	7.1	2800			
EB-1-10	EB-1	10	07/27/90	Total	mg/kg	<5.0	<2.5	59	0.37	0.55	7.7		6.5	8.2	0.90	<0.10	<0.5	9.0	<2.5	<1.0	<5.0	9.5	23			
EB-1-15	EB-1	15	07/27/90	Total	mg/kg	<5.0	<2.5	<0.5	<0.5	0.32	2.9		<0.5	3.1	<2.5	<0.10	<0.5	<0.5	<2.5	<1.0	<5.0	4.2	4.6			
EB-1-20	EB-1	20	07/27/90	Total	mg/kg	<5.0	<2.5	13	<0.5	0.28	4.2		<0.5	3.7	<2.5	<0.10	<0.5	2.4	<2.5	<1.0	<5.0	3.5	5.6			
EB-1-30	EB-1	30	07/27/90	Total	mg/kg	<5.0	170	24	<0.5	0.36	4.9		2.8	9.5	<2.5	<0.10	<0.5	3.7	<2.5	<1.0	<5.0	5.9	11			
EB-2-1	EB-2	1	07/27/90	Total	mg/kg	13	24	150	100	14	22		19	10200	3000	1.6	12	170	<2.5	3.5	<5.0	21	35000			
EB-2-5	EB-2	5	07/27/90	Total	mg/kg	9.0	230	60	0.34	0.29	4.7		<0.5	67	13	7.3	<0.5	5.1	18	<1.0	<5.0	6.3	290			
EB-2-10	EB-2	10	07/27/90	Total	mg/kg	<5.0	72	62	0.45	0.47	6.9		5.7	6.7	<2.5	<0.10	<0.5	12	<2.5	<1.0	<5.0	11	28			
EB-2-15	EB-2	15	07/27/90	Total	mg/kg	<5.0	71	62	0.44	0.51	7.0		6.0	6.6	<2.5	<0.10	<0.5	12	<2.5	<1.0	<5.0	11	28			
EB-2-20	EB-2	20	07/27/90	Total	mg/kg	<5.0	<2.5	14	<0.5	<0.5	3.0		<0.5	1.3	<2.5	<0.10	<0.5	2.4	<2.5	<1.0	<5.0	4.2	3.5			
EB-2-30	EB-2	30	07/27/90	Total	mg/kg	<5.0	43	<0.5	<0.5	<0.5	3.3		<0.5	<0.5	<2.5	<0.10	<0.5	3.1	<2.5	<1.0	<5.0	3.3	4.5			
EB-3-1	EB-3	1	07/27/90	Total	mg/kg	<5.0	<2.5	51	0.32	0.51	7.3		8.7	7.4	<2.5	<0.10	<0.5	7.2	<2.5	<1.0	<5.0	9.4	19			
EB-3-5	EB-3	5	07/27/90	Total	mg/kg	13	480	58	0.40	<0.5	10		6.4	90	13	<0.10	<0.5	8.0	3.2	1.2	<5.0	12	110			
EB-3-10	EB-3	10	07/27/90	Total	mg/kg	<5.0	<2.5	150	0.31	0.73	6.6		6.6	5.8	<2.5	<0.10	<0.5	6.9	<2.5	<1.0	<5.0	13	31			
EB-3-15	EB-3	15	07/27/90	Total	mg/kg	<5.0	<2.5	37	<0.5	0.52	7.3		<0.5	28	<2.5	<0.10	<0.5	2.5	<2.5	<1.0	<5.0	11	31			
EB-4-1	EB-4	1	07/27/90	Total	mg/kg	<5.0	150	82	<0.5	0.86	9.1		6.8	31	5.4	0.2	<0.5	10	6.2	<1.0	<5.0	19	98			
EB-4-5	EB-4	5	07/27/90	Total	mg/kg	9.9	280	160	0.35	2.5	16		9.3	130	10	0.3	<0.5	20	<2.5	<1.0	<5.0	28	270			
EB-4-10	EB-4	10	07/27/90	Total	mg/kg	<5.0	120	150	0.42	2.1	10		11	23	9.7	0.2	<0.5	17	<2.5	<1.0	<5.0	18	770			
EB-4-15	EB-4	15	07/27/90	Total	mg/kg	<5.0	260	40	<0.5	0.63	8.3		3.4	6.6	<2.5	<0.10	<0.5	5.5	<2.5	<1.0	<5.0	15	19			
EB-5-1	EB-5	1	07/27/90	Total	mg/kg	3.0	5.3	18	<0.5	0.33	4.6		2.7	13	4.9	<0.10	<0.5	<0.5	<2.5	<1.0	<5.0	7.4	55			
EB-5-5	EB-5	5	07/27/90	Total	mg/kg	<5.0	<2.5	100	0.28	2.1	16		8.5	22	18	<0.10	<0.5	18	<2.5	<1.0	<5.0	21	80			
EB-5-10	EB-5	10	07/27/90	Total	mg/kg	<5.0	260	51	<0.5	0.63	6.6		4.8	11	2.4	<0.10	<0.5	4.3	<2.5	<1.0	<5.0	9.8	37			
EB-5-15	EB-5	15	07/27/90	Total	mg/kg	<5.0	240	36	<0.5	0.41	8.4		3.0	5.7	<2.5	<0.10	<0.5	4.9	<2.5	<1.0	<5.0	12	19			
EHB1-0.5	EHB-1	0.5	11/20/92	Total	mg/kg							<0.10														
EHB1-5	EHB-1	5	11/20/92	Total	mg/kg							<0.10														
HP2-1	MW-11	65.0 - 65.5	08/05/93	Total	mg/kg		5.2																			
HP2-2	MW-11	80.5 - 81.0	08/05/93	Total	mg/kg		3.6																			
HP2-3	MW-11	87.0 - 87.5	08/05/93	Total	mg/kg		11																			
HP2-6	MW-11	105.0 - 105.5	08/05/93	Total	mg/kg		2.9																			
HP3-1	MW-13	68.5 - 69.0	08/16/93	Total	mg/kg		29																			
HP3-3	MW-13	76.5 - 77.0	08/16/93	Total	mg/kg		81																			
HP4-1	MW-12	91.5 - 92.0	08/05/93	Total	mg/kg		130																			
HP4-7	MW-12	104.0 - 104.5	08/06/93	Total	mg/kg		<1.0																			
HP5-1	HP-5	76.0 - 76.5	08/17/93	Total	mg/kg		360																			
HP5-1	HP-5	76.0 - 76.5	08/17/93	Wet	mg/L		51																			
HP5-3	HP-5	86.0 - 86.5	08/17/93	Total	mg/kg		12																			
MW14-7	MW-14	7	06/06/01	Total	mg/kg		5.2																		12600	
MW14-12	MW-14	12	06/06/01	Total	mg/kg		129																		8780	

TABLE 4
METAL CONCENTRATIONS IN SOIL
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Sample ID	Location	Sample Depth	Date Collected	Method	Units	Sb	As	Ba	Be	Cd	Cr	Hex Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn	Al	Fe	Mn
Total Threshold Limit Concentration (TTLIC)					mg/kg	500	500	10000	75	100	500	NA	8000	2500	1000	20	3500	2000	100	500	700	2400	5000	NA	NA	NA
Soluble Threshold Limit Concentration (STLC)					mg/L	15	5	100	0.75	1	5	NA	80	25	5	0.2	350	20	1	5	7	24	250	NA	NA	NA
MW14-20	MW-14	20	06/06/01	Total	mg/kg		78.2																		6970	
MW14-30	MW-14	30	06/06/01	Total	mg/kg		106																		7460	
MW14-40	MW-14	40	06/06/01	Total	mg/kg		59.0																		5300	
MW14-50	MW-14	50	06/06/01	Total	mg/kg		162																		8890	
MW14-60	MW-14	60	06/06/01	Total	mg/kg		186																		9150	
MW14-70	MW-14	70	06/06/01	Total	mg/kg		146																		11700	
MW14-80	MW-14	80	06/06/01	Total	mg/kg		147																		10400	

LEGEND

mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
Hex Cr = Hexavalent chromium
WET = Waste Extraction Test
<Number = Analyte not detected at or above stated detection limit
NA = Not applicable / available

NOTES:

(1) Sample depths are in feet below ground surface.

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW1	02/19/97	1.51	3.70	<0.002	83.8	329	NA	
MW1	09/18/97	1.46	2.44	<0.003	100	340	NA	
MW1	05/15/98	1.4	1.4	0.016	110	370	NA	
MW1	11/05/98	1.2	2.4	0.230	120	330	NA	
MW1	06/03/99	1.2	1.8	<0.005	110	350	NA	
MW1	11/09/99	0.033	1.6	<0.008	160	180	980	
MW1	03/14/00	0.945	NA	<0.004	82.0	301	NA	
MW1	09/19/00	0.655	5.78	<0.001	74.3	303	NA	Low-flow, micro-purge sampling
MW1	03/29/01	0.561	5.03	<0.050	72.0	268	NA	Low-flow, micro-purge sampling
MW1	09/08/01	0.650	2.66	0.006	80	299	1090	Low-flow, micro-purge sampling
MW1	03/12/02	0.728	1.76	<0.005	83	303	NA	Low-flow, micro-purge sampling
MW1	09/17/02	0.750	1.62	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/20/03	1.03	0.757	<0.005	99.1	314	880	Low-flow, micro-purge sampling
MW1	09/24/03	1.05	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/10/04	1.12	0.693	<0.005	77.3	225	750	Low-flow, micro-purge sampling
MW1	09/27/04	1.06	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/24/05	1.3	0.72	<0.0050	77	210	730	Low-flow, micro-purge sampling
MW1	09/13/05	1.3	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/01/06	1.09	0.979	0.005	84.2	201	778	Low-flow, micro-purge sampling
MW1	09/12/06	1.1	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/13/07	1.27	1.72	<0.0069	54.3	250	803	Low-flow, micro-purge sampling
MW1	09/11/07	1.1	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/18/08	1.02	5.62	<0.0069	63.9	277	806	Low-flow, micro-purge sampling
MW1	09/16/08	0.934	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW1	03/11/09	1.06	6.24	<0.0069	75.9	258	825	Low-flow, micro-purge sampling
MW2	02/19/97	13.6	93.9	<0.020	58.8	1690	NA	
MW2	09/18/97	20.1	13.2	<0.030	66	1200	NA	
MW2	05/15/98	24	61	<0.008	80	1500	NA	
MW2	11/05/98	42	34	<0.008	80	1400	NA	
MW2	06/03/99	33	25	<0.005	96	1510	NA	
MW2	11/09/99	29	20	<0.008	78	1230	2320	
MW2	03/14/00	36.3	NA	0.003	72	1000	NA	
MW2	09/19/00	38.2	23.8	<0.001	78.1	1050	NA	Low-flow, micro-purge sampling
MW2	03/29/01	41.2	32.8	<0.050	84	858	NA	Low-flow, micro-purge sampling
MW2	09/08/01	44.3	21.8	<0.005	84	940	2120	Low-flow, micro-purge sampling
MW2	03/12/02	30.8	20.2	<0.005	76	828	NA	Low-flow, micro-purge sampling
MW2	09/17/02	37.4	18.7	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/21/03	33.9	20.7	<0.005	69.2	986	2110	Low-flow, micro-purge sampling
MW2	09/24/03	26.7	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW2	03/10/04	21.5	31.9	<0.005	66.6	975	2030	Low-flow, micro-purge sampling
MW2	09/27/04	17.1	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/24/05	21	25	<0.0050	60	1200	2100	Low-flow, micro-purge sampling
MW2	09/13/05	27	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/01/06	23.5	19.2	0.009	77.1	946	2060	Low-flow, micro-purge sampling
MW2	09/12/06	23	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/13/07	17.7	23.0	<0.0069	80.5	995	2010	Low-flow, micro-purge sampling
MW2	09/11/07	15	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/18/08	14.2	22.4	<0.0069	86.8	1220	1950	Low-flow, micro-purge sampling
MW2	09/16/08	17.5	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW2	03/11/09	20.5	24.9	<0.0069	85.8	1120	1810	Low-flow, micro-purge sampling
MW3	02/19/97	9.96	5.86	<0.020	358	272	NA	
MW3	09/18/97	9.95	5.52	0.005	610	270	NA	
MW3	05/15/98	8.0	7.3	<0.008	370	300	NA	
MW3	11/05/98	14	6.8	<0.008	550	280	NA	
MW3	06/03/99	14	5.1	<0.005	730	300	NA	
MW3	11/09/99	12	4.8	<0.008	700	290	2340	
MW3	03/14/00	20.5	NA	0.004	743	249	NA	
MW3	09/19/00	16.9	2.43	<0.001	814	272	NA	Low-flow, micro-purge sampling
MW3	03/29/01	16.3	0.982	<0.050	858	257	NA	Low-flow, micro-purge sampling
MW3	09/08/01	12.4	1.70	0.007	790	244	2940	Low-flow, micro-purge sampling
MW3	03/12/02	13.0	3.01	<0.005	632	246	NA	Low-flow, micro-purge sampling
MW3	09/17/02	13.0	1.24	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/21/03	14.6	1.01	<0.005	768	233	2310	Low-flow, micro-purge sampling
MW3	09/24/03	14.3	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/10/04	16.6	1.04	<0.005	807	257	2740	Low-flow, micro-purge sampling
MW3	09/27/04	10.7	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/24/05	11	1.2	<0.0050	750	250	2200	Low-flow, micro-purge sampling
MW3	09/13/05	9.6	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/01/06	10.8	2.91	0.011	685	252	2270	Low-flow, micro-purge sampling
MW3	09/12/06	17	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/13/07	17.6	1.05	<0.0069	792	252	1860	Low-flow, micro-purge sampling
MW3	09/11/07	18	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/18/08	17.8	0.692	<0.0069	977	378	2210	Low-flow, micro-purge sampling
MW3	09/16/08	17.1	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW3	03/11/09	19.2	0.697	<0.0069	914	309	2400	Low-flow, micro-purge sampling
MW4	02/19/97	1.14	0.68	<0.002	305	242	NA	
MW4	09/18/97	2.56	0.74	<0.015	290	410	NA	

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW4	05/15/98	1.7	0.40	0.01	170	210	NA	
MW4	11/05/98	2.9	0.50	<0.008	190	360	NA	
MW4	06/03/99	2.5	0.50	0.0058	160	280	NA	
MW4	11/09/99	0.68	6.2	<0.008	130	360	1120	
MW4	03/14/00	1.59	NA	0.003	NA	NA	NA	
MW4	09/19/00	1.89	0.606	<0.001	227	410	NA	Low-flow, micro-purge sampling
MW4	03/29/01	1.62	0.561	<0.050	246	446	NA	Low-flow, micro-purge sampling
MW4	09/08/01	1.86	0.760	<0.005	251	469	1720	Low-flow, micro-purge sampling
MW4	03/12/02	1.80	0.967	<0.005	210	438	NA	Low-flow, micro-purge sampling
MW4	09/17/02	1.72	0.795	NA	NA	NA	NA	No purge sampling
MW4	03/20/03	1.50	0.706	<0.005	291	603	1620	No purge sampling
MW4	09/24/03	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/10/04	0.624	0.427	<0.005	55.0	127	630	No purge sampling
MW4	09/27/04	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/24/05	NA	NA	NA	NA	NA	NA	Not sampled; well was not accessible
MW4	09/13/05	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/01/06	0.812	0.561	<0.005	162	383	1150	No purge sampling
MW4	09/12/06	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/13/07	0.644	0.526	<0.0069	167	453	1240	No purge sampling
MW4	09/11/07	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/18/08	0.648	0.561	<0.0069	268	812	1630	No purge sampling
MW4	09/16/08	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW4	03/11/09	0.685	0.526	<0.0069	201	511	1400	No purge sampling
MW7	02/19/97	<0.003	0.74	<0.002	50	250	NA	
MW7	09/18/97	<0.006	0.58	<0.005	870	190	NA	
MW7	05/15/98	<0.020	0.60	0.0098	52	240	NA	
MW7	11/05/98	<0.020	1.9	0.018	28	310	NA	
MW7	06/03/99	0.0089	1.8	0.019	25	340	NA	
MW7	11/09/99	<0.020	2.8	<0.008	30	31	730	
MW7	03/14/00	0.006	NA	0.002	25	285	NA	
MW7	09/19/00	0.008	1.09	<0.001	36.1	246	NA	Low-flow, micro-purge sampling
MW7	03/29/01	<0.020	0.641	<0.050	37	161	NA	Low-flow, micro-purge sampling
MW7	09/08/01	<0.005	0.369	<0.005	50	145	560	Low-flow, micro-purge sampling
MW7	03/12/02	<0.005	0.449	<0.005	53	141	NA	Low-flow, micro-purge sampling
MW7	09/17/02	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/20/03	0.009	0.295	<0.005	94.9	164	650	Low-flow, micro-purge sampling
MW7	09/24/03	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/10/04	<0.005	0.243	<0.005	92.6	172	730	Low-flow, micro-purge sampling
MW7	09/27/04	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW7	03/24/05	0.0058	0.23	<0.0050	110	220	750	Low-flow, micro-purge sampling
MW7	09/13/05	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/01/06	0.007	0.489	0.008	80.4	190	738	Low-flow, micro-purge sampling
MW7	09/12/06	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/13/07	<0.010	0.606	<0.0069	51.6	161	540	Low-flow, micro-purge sampling
MW7	09/11/07	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/18/08	<0.010	0.523	<0.0069	92.8	231	731	Low-flow, micro-purge sampling
MW7	09/16/08	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW7	03/11/09	<0.010	0.646	<0.0069	56.4	169	539	Low-flow, micro-purge sampling
MW10	02/19/97	2.13	4.13	<0.002	22.2	217	NA	
MW10	09/18/97	4.45	7.24	<0.006	140	360	NA	
MW10	05/15/98	0.85	3.3	<0.008	150	340	NA	
MW10	11/05/98	2.8	0.50	<0.008	92	300	NA	
MW10	06/03/99	1.1	4.5	<0.005	130	360	NA	
MW10	11/09/99	2.6	2.2	<0.008	220	540	1430	
MW10	03/14/00	1.16	NA	0.005	115	293	NA	
MW10	09/19/00	1.66	4.1	<0.001	137	336	NA	Low-flow, micro-purge sampling
MW10	03/29/01	1.54	6.33	<0.050	131	308	NA	Low-flow, micro-purge sampling
MW10	09/08/01	1.84	8.67	<0.005	163	370	1420	Low-flow, micro-purge sampling
MW10	03/12/02	2.11	7.46	<0.005	116	357	NA	Low-flow, micro-purge sampling
MW10	09/17/02	2.72	7.68	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/20/03	2.79	13.0	<0.005	202	492	1600	Low-flow, micro-purge sampling
MW10	09/24/03	1.84	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/10/04	2.39	21.8	<0.005	208	561	2050	Low-flow, micro-purge sampling
MW10	09/27/04	3.45	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/24/05	2.9	11	<0.0050	59	470	1200	Low-flow, micro-purge sampling
MW10	09/13/05	3.8	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/01/06	2.94	10.9	0.008	83.0	423	1320	Low-flow, micro-purge sampling
MW10	09/12/06	2.9	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/13/07	3.77	8.09	<0.0069	30.1	345	968	Low-flow, micro-purge sampling
MW10	09/11/07	3.9	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/18/08	2.71	6.88	<0.0069	190	506	1090	Low-flow, micro-purge sampling
MW10	09/16/08	2.99	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW10	03/11/09	2.70	5.28	<0.0069	126	333	1050	Low-flow, micro-purge sampling
MW11	02/19/97	1.51	1.4	<0.002	228	554	NA	
MW11	09/18/97	1.28	1.44	0.004	250	460	NA	
MW11	05/15/98	3.6	0.60	0.027	240	500	NA	
MW11	11/05/98	NA	NA	NA	NA	NA	NA	

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW11	06/03/99	1.8	2.6	<0.005	200	480	NA	
MW11	11/09/99	0.049	2.3	<0.008	220	460	1380	
MW11	03/14/00	0.216	NA	0.004	207	404	NA	
MW11	09/19/00	0.012	0.281	<0.001	234	398	NA	Low-flow, micro-purge sampling
MW11	03/29/01	<0.020	0.278	<0.050	204	364	NA	Low-flow, micro-purge sampling
MW11	09/08/01	0.007	0.260	0.006	207	354	1290	Low-flow, micro-purge sampling
MW11	03/12/02	0.371	1.66	<0.005	217	403	NA	Low-flow, micro-purge sampling
MW11	09/17/02	0.017	0.457	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW11	03/20/03	0.007	0.466	<0.005	208	318	1070	Low-flow, micro-purge sampling
MW11	09/24/03	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/10/04	<0.005	0.535	<0.005	196	314	1150	Low-flow, micro-purge sampling
MW11	09/27/04	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/24/05	0.0084	0.39	<0.0050	180	300	1000	Low-flow, micro-purge sampling
MW11	09/13/05	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/01/06	0.021	0.416	0.008	197	304	1100	Low-flow, micro-purge sampling
MW11	09/12/06	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/13/07	0.036	0.344	<0.0069	192	321	928	Low-flow, micro-purge sampling
MW11	09/11/07	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/18/08	0.0111	0.328	<0.0069	245	530	1050	Low-flow, micro-purge sampling
MW11	09/16/08	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW11	03/11/09	0.0159	0.349	<0.0069	188	345	980	Low-flow, micro-purge sampling
MW12	02/19/97	0.018	0.34	<0.002	75.5	212	NA	
MW12	09/18/97	0.013	0.31	<0.003	230	1100	NA	
MW12	05/15/98	<0.020	<0.30	<0.008	290	1100	NA	
MW12	11/05/98	<0.020	<0.30	<0.008	200	300	NA	
MW12	06/03/99	0.045	0.30	0.021	230	1100	NA	
MW12	11/09/99	<0.020	1.7	<0.008	240	830	1760	
MW12	03/14/00	<0.003	NA	0.004	223	618	NA	
MW12	09/19/00	0.002	0.273	<0.001	242	813	NA	Low-flow, micro-purge sampling
MW12	03/29/01	<0.020	0.254	<0.050	181	596	NA	Low-flow, micro-purge sampling
MW12	09/08/01	<0.005	0.209	0.005	178	607	1510	Low-flow, micro-purge sampling
MW12	03/12/02	<0.005	0.300	<0.005	187	352	NA	Low-flow, micro-purge sampling
MW12	09/17/02	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/20/03	<0.005	0.322	<0.005	161	369	900	Low-flow, micro-purge sampling
MW12	09/24/03	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/10/04	<0.005	0.334	<0.005	98.9	363	870	Low-flow, micro-purge sampling
MW12	09/27/04	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/24/05	0.0075	0.22	<0.0050	100	300	720	Low-flow, micro-purge sampling
MW12	09/13/05	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW12	03/01/06	0.010	0.241	0.007	97.4	265	706	Low-flow, micro-purge sampling
MW12	09/12/06	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/13/07	0.0106	0.154	<0.0069	68.3	184	481	Low-flow, micro-purge sampling
MW12	09/11/07	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/18/08	<0.010	0.244	<0.0069	136	430	775	Low-flow, micro-purge sampling
MW12	09/16/08	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW12	03/11/09	<0.010	0.233	<0.0069	122	391	797	Low-flow, micro-purge sampling
MW13	02/19/97	0.061	0.43	<0.002	179	204	NA	
MW13	09/18/97	0.066	0.51	<0.003	210	190	NA	
MW13	05/15/98	0.14	0.50	0.016	180	170	NA	
MW13	11/05/98	0.084	4.3	0.012	170	170	NA	
MW13	06/03/99	0.059	0.7	<0.005	180	210	NA	
MW13	11/09/99	0.31	7.9	<0.008	84	330	990	
MW13	03/14/00	0.048	NA	0.004	159	175	NA	
MW13	09/19/00	0.062	0.674	<0.001	155	178	NA	Low-flow, micro-purge sampling
MW13	03/29/01	0.076	0.66	<0.050	135	170	NA	Low-flow, micro-purge sampling
MW13	09/08/01	0.025	0.690	<0.005	123	165	920	Low-flow, micro-purge sampling
MW13	03/12/02	0.024	0.698	<0.005	133	177	NA	Low-flow, micro-purge sampling
MW13	09/17/02	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/21/03	0.090	0.772	<0.005	115	166	750	Low-flow, micro-purge sampling
MW13	09/24/03	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/10/04	0.019	0.663	<0.005	117	177	790	Low-flow, micro-purge sampling
MW13	09/27/04	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/24/05	0.027	0.56	<0.0050	86	130	620	Low-flow, micro-purge sampling
MW13	09/13/05	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/01/06	0.045	0.506	0.007	119	202	998	Low-flow, micro-purge sampling
MW13	09/12/06	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/13/07	<0.010	0.444	<0.0069	126	248	812	Low-flow, micro-purge sampling
MW13	09/11/07	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/18/08	0.0482	0.444	<0.0069	197	327	926	Low-flow, micro-purge sampling
MW13	09/16/08	NA	NA	NA	NA	NA	NA	Not sampled; well sampled on an annual basis (during 1st quarter)
MW13	03/11/09	0.0142	0.406	<0.0069	112	181	805	Low-flow, micro-purge sampling
MW14	09/08/01	10.1	0.334	<0.005	131	407	1340	Low-flow, micro-purge sampling
MW14	03/12/02	12.0	0.413	<0.005	113	336	NA	Low-flow, micro-purge sampling
MW14	09/17/02	12.8	0.447	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/21/03	15.3	0.509	<0.005	130	293	1100	Low-flow, micro-purge sampling
MW14	09/24/03	10.7	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/10/04	8.13	0.389	<0.005	96.2	225	860	Low-flow, micro-purge sampling

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW14	09/27/04	6.63	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/24/05	7.5	0.30	<0.0050	110	210	840	Low-flow, micro-purge sampling
MW14	09/13/05	6.7	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/01/06	6.84	0.326	0.007	128	221	934	Low-flow, micro-purge sampling
MW14	09/12/06	6.5	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/13/07	8.10	0.322	<0.0069	135	331	924	Low-flow, micro-purge sampling
MW14	09/11/07	8.2	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/18/08	9.06	0.312	<0.0069	187	400	1070	Low-flow, micro-purge sampling
MW14	09/16/08	8.52	NA	NA	NA	NA	NA	Low-flow, micro-purge sampling
MW14	03/11/09	8.38	0.318	<0.0069	150	266	996	Low-flow, micro-purge sampling
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES								
Equipment	03/20/03	<0.005	0.080	<0.005	NA	NA	NA	
Equipment	09/24/03	0.014	NA	NA	NA	NA	NA	
Equipment	03/10/04	<0.005	0.024	<0.005	NA	NA	NA	
Equipment	09/27/04	0.006	NA	NA	NA	NA	NA	
Equipment	03/24/05	<0.0050	<0.050	<0.0050	NA	NA	NA	
Equipment	09/13/05	<0.0050	NA	NA	NA	NA	NA	
Equipment	03/01/06	0.012	0.097	<0.005	<1.0	<1.0	<6.0	
Equipment	09/12/06	<0.0050	NA	NA	NA	NA	NA	
Equipment	03/13/07	<0.010	<0.0094	<0.0069	<0.200	<0.300	<9.70	
Equipment	09/11/07	<0.010	NA	NA	NA	NA	NA	
Equipment	03/18/08	<0.010	<0.0094	<0.0069	0.210	<0.300	<9.70	
Equipment	09/16/08	0.0120	NA	NA	NA	NA	NA	
Equipment	03/11/09	<0.010	<0.0094	<0.0069	NA	NA	NA	
MW3	03/21/03	14.6	1.01	<0.005	768	233	2310	
Duplicate	03/21/03	14.8	0.882	<0.005	737	208	2230	Duplicate of sample MW3
MW3	09/24/03	14.3	NA	NA	NA	NA	NA	
Duplicate	09/24/03	14.6	NA	NA	NA	NA	NA	Duplicate of sample MW3
MW3	03/10/04	16.6	1.04	<0.005	807	257	2740	
Duplicate	03/10/04	16.3	0.809	<0.005	806	257	2800	Duplicate of sample MW3
MW3	09/27/04	10.7	NA	NA	NA	NA	NA	
Duplicate	09/27/04	10.6	NA	NA	NA	NA	NA	Duplicate of sample MW3

TABLE 5
METAL CONCENTRATIONS AND OTHER GROUNDWATER PARAMETERS
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	Arsenic	Boron	Lead	Chloride	Sulfate	TDS	Comments
		Concentration in milligrams per liter (mg/L)						
WQPS (mg/L)	--	NA	1.5	NA	250	250	800	
MW10	03/24/05	2.9	11	<0.0050	59	470	1200	
Duplicate	03/24/05	2.9	10	<0.0050	69	470	1200	Duplicate of sample MW10
MW3	09/13/05	9.6	NA	NA	NA	NA	NA	
Duplicate	09/13/05	9.5	NA	NA	NA	NA	NA	Duplicate of sample MW3
MW10	03/01/06	2.94	10.9	0.008	83.0	423	1320	
Duplicate	03/01/06	3.11	11.7	0.009	101	435	1410	Duplicate of sample MW10
MW3	09/12/06	17	NA	NA	NA	NA	NA	
Duplicate	09/12/06	15	NA	NA	NA	NA	NA	Duplicate of sample MW3
MW10	03/13/07	3.77	8.09	<0.0069	30.1	345	968	
Duplicate	03/13/07	4.17	8.43	<0.0069	39.6	361	943	Duplicate of sample MW10
MW10	09/11/07	3.9	NA	NA	NA	NA	NA	
Duplicate	09/11/07	3.9	NA	NA	NA	NA	NA	Duplicate of sample MW10
MW10	03/18/08	2.71	6.88	<0.0069	190	506	1090	
Duplicate	03/18/08	2.81	7.09	<0.0069	174	472	1140	Duplicate of sample MW10
MW10	09/16/08	2.99	NA	NA	NA	NA	NA	
Duplicate	09/16/08	2.91	NA	NA	NA	NA	NA	Duplicate of sample MW10
MW10	03/11/09	2.70	5.28	<0.0069	126	333	1050	
Duplicate	03/11/09	2.95	6.03	<0.0069	122	333	1020	Duplicate of sample MW10

LEGEND

WQPS = Water Quality Protection Standard
TDS = Total dissolved solids
<Number = Not detected at or above stated method detection limit
NA = Not available / analyzed
Equipment = Equipment blank

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW1	02/19/97	2	NA	6	<1	<1	<1	91	NA	NA	140	<5	
MW1	09/18/97	<1	NA	5	<1	<1	<1	81	NA	NA	120	<5	
MW1	05/15/98	1.3	NA	6.2	<0.5	<1	0.89	110	NA	NA	140	<1	
MW1	11/05/98	1.2	NA	7.2	<0.5	<1	<0.5	86	NA	NA	120	<1	
MW1	06/03/99	1.2	NA	5.3	<1	<1	<1	100	NA	NA	150	<1	
MW1	11/09/99	<1	<0.5	3.5	1.9	2.7	4.9	34	<0.5	<0.5	130	2.0	
MW1	03/14/00	<5	<5	<5	<5	<5	NA	95	<5	<5	120	<5	
MW1	09/19/00	<5	<5	<5	<5	<5	NA	38	21	<5	59	<5	Low-flow, micro-purge sampling
MW1	03/29/01	<5	<5	NA	<5	<5	<5	43	NA	NA	89	<5	Low-flow, micro-purge sampling
MW1	09/08/01	<5	<5	<5	<5	<5	<5	35	<5	<5	58	<5	Low-flow, micro-purge sampling
MW1	03/12/02	<5	<5	2.0 J	<5	<5	<5	49	<5	<5	67	<5	Low-flow, micro-purge sampling
MW1	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/20/03	<5	<5	<5	<5	<5	<5	58	<5	<5	72	<5	Low-flow, micro-purge sampling
MW1	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/10/04	<5	<5	1.4 J	<5	<5	<5	33	<5	<5	60	<5	Low-flow, micro-purge sampling
MW1	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/24/05	<1.0	<1.0	4.0	<0.50	0.38 J	<1.0	56	<0.50	<1.0	62	0.60 J	Low-flow, micro-purge sampling
MW1	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/01/06	<5	<5	<5	<5	<5	<5	50	<5	<5	67	<5	Low-flow, micro-purge sampling
MW1	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/13/07	<0.8	<1	3	<1	<0.8	<0.8	47	<0.5	<0.8	58	<2	Low-flow, micro-purge sampling
MW1	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/18/08	<0.8	<1	3	<1	<0.8	<0.8	49	<0.5	<0.8	61	<2	Low-flow, micro-purge sampling
MW1	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW1	03/11/09	<0.8	<1	3	<1	<0.8	<0.8	46	<0.5	<0.8	56	<2	Low-flow, micro-purge sampling
MW2	02/19/97	<1	NA	3	<1	<1	<1	36	NA	NA	47	<5	
MW2	09/18/97	<1	NA	<1	<1	<1	<1	37	NA	NA	44	<5	
MW2	05/15/98	<1	NA	1.9	<0.5	<1	<0.5	39	NA	NA	53	<1	
MW2	11/05/98	<1	NA	3.6	<0.5	<1	<0.5	42	NA	NA	53	<1	
MW2	06/03/99	<5	NA	<1	<1	<1	<1	65	NA	NA	70	<1	
MW2	11/09/99	<5	<2.5	3.8	<2.5	<5	<2.5	66	<2.5	<2.5	64	<5	
MW2	03/14/00	<5	<5	<5	<5	<5	NA	63	<5	<5	63	<5	
MW2	09/19/00	<5	<5	<5	<5	<5	NA	32	36	<5	38	<5	Low-flow, micro-purge sampling
MW2	03/29/01	<5	<5	NA	<5	<5	<5	42	NA	NA	60	<5	Low-flow, micro-purge sampling
MW2	09/08/01	<5	<5	<5	<5	<5	<5	32	<5	<5	41	<5	Low-flow, micro-purge sampling

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW2	03/12/02	<5	<5	1.4 J	<5	<5	<5	35	<5	<5	45	<5	Low-flow, micro-purge sampling
MW2	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/21/03	<5	<5	<5	<5	<5	<5	35	<5	<5	44	<5	Low-flow, micro-purge sampling
MW2	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/10/04	<5	<5	<5	<5	<5	<5	24	<5	<5	43	<5	Low-flow, micro-purge sampling
MW2	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/24/05	<1.0	<1.0	0.73 J	<0.50	<1.0	<1.0	31	<0.50	<1.0	26	<1.0	Low-flow, micro-purge sampling
MW2	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/01/06	<5	<5	<5	<5	<5	<5	26	<5	<5	36	<5	Low-flow, micro-purge sampling
MW2	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/13/07	<0.8	<1	1	<1	<0.8	<0.8	36	<0.5	<0.8	37	<2	Low-flow, micro-purge sampling
MW2	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/18/08	<0.8	<1	2	<1	<0.8	<0.8	44	<0.5	<0.8	44	<2	Low-flow, micro-purge sampling
MW2	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW2	03/11/09	<0.8	<1	2	<1	<0.8	<0.8	36	<0.5	<0.8	39	<2	Low-flow, micro-purge sampling
MW3	02/19/97	<2	NA	<2	<2	<2	5	390	NA	NA	130	<10	
MW3	09/18/97	<1	NA	<1	<1	2	5	430	NA	NA	150	<5	
MW3	05/15/98	<1	NA	<0.5	<0.5	1.5	4.7	550	NA	NA	130	<1	
MW3	11/05/98	<1	NA	<0.5	<0.5	2.3	8.5	640	NA	NA	190	<1	
MW3	06/03/99	<1	NA	<1	<1	2.1	7.5	625	NA	NA	200	<1	
MW3	11/09/99	<1	<0.5	<0.5	<0.5	<1	7.4	640	<0.5	<0.5	170	<1	
MW3	03/14/00	<5	<5	<5	<5	<5	NA	474	<5	<5	203	<5	
MW3	09/19/00	<5	<5	<5	<5	<5	NA	486	17	<5	117	<5	Low-flow, micro-purge sampling
MW3	03/29/01	<5	<5	NA	<5	<5	6.4	433	NA	NA	157	<5	Low-flow, micro-purge sampling
MW3	09/08/01	<5	<5	<5	<5	<5	<5	300	<5	<5	89	<5	Low-flow, micro-purge sampling
MW3	03/12/02	<5	<5	<5	<5	<5	2.2 J	310	<5	<5	70	<5	Low-flow, micro-purge sampling
MW3	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/21/03	<5	<5	<5	<5	<5	<5	182	<5	<5	47	<5	Low-flow, micro-purge sampling
MW3	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/10/04	<5	<5	<5	<5	<5	<5	76	<5	<5	33	<5	Low-flow, micro-purge sampling
MW3	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/24/05	<1.0	<1.0	0.67 J	<0.50	0.71 J	0.77 J	110	<0.50	<1.0	34	<1.0	Low-flow, micro-purge sampling
MW3	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/01/06	<5	<5	<5	<5	<5	<5	86	<5	<5	26	<5	Low-flow, micro-purge sampling
MW3	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW3	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	55	<0.5	<0.8	17	<2	Low-flow, micro-purge sampling
MW3	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/18/08	<0.8	<1	1	<1	<0.8	<0.8	70	<0.5	<0.8	20	<2	Low-flow, micro-purge sampling
MW3	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW3	03/11/09	<0.8	<1	0.8	<1	<0.8	<0.8	46	<0.5	<0.8	14	<2	Low-flow, micro-purge sampling
MW4	02/19/97	<2	NA	<2	<2	<2	3	<2	NA	NA	220	<10	
MW4	09/18/97	<2	NA	<2	<2	<2	4	<2	NA	NA	200	<10	
MW4	05/15/98	<1	NA	0.76	<0.5	<1	<0.5	1.4	NA	NA	190	<1	
MW4	11/05/98	<1	NA	<0.5	<0.5	<1	4.5	2.2	NA	NA	180	<1	
MW4	06/03/99	<1	NA	0.8	<1	<1	5.6	<1	NA	NA	200	<1	
MW4	11/09/99	<5	<2.5	4.1	29	19	3.3	13	<2.5	<2.5	150	51	
MW4	03/14/00	<5	<5	<5	<5	<5	NA	<5	<5	<5	161	<5	
MW4	09/19/00	<5	<5	<5	<5	<5	NA	<5	98	<5	67	<5	Low-flow, micro-purge sampling
MW4	03/29/01	<5	<5	NA	<5	<5	<5	<5	NA	NA	137	<5	Low-flow, micro-purge sampling
MW4	09/08/01	<5	<5	<5	<5	<5	<5	<5	<5	<5	19	<5	Low-flow, micro-purge sampling
MW4	03/12/02	<5	<5	<5	<5	<5	3.0 J	<5	<5	1.5 J	113	<5	Low-flow, micro-purge sampling
MW4	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW4	03/20/03	<5	<5	<5	<5	<5	<5	<5	<5	<5	109	<5	No purge sampling
MW4	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/10/04	<5	<5	<5	<5	<5	2.1 J	<5	<5	1.1 J	108	<5	No purge sampling
MW4	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/24/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not sampled; well was not accessible
MW4	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/01/06	<5	<5	<5	<5	<5	2.0 J	<5	<5	<5	108	<5	No purge sampling
MW4	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/13/07	<0.8	<1	<0.8	<1	<0.8	2	<0.8	<0.5	<0.8	100	<2	No purge sampling
MW4	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/18/08	<0.8	<1	<0.8	<1	<0.8	2	0.8	<0.5	<0.8	93	<2	No purge sampling
MW4	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW4	03/11/09	<0.8	<1	<0.8	<1	<0.8	1	<0.8	<0.5	<0.8	89	<2	No purge sampling
MW7	02/19/97	<1	NA	<1	<2	<2	3	20	NA	NA	120	<10	
MW7	09/18/97	<1	NA	2	<1	2	4	32	NA	NA	170	<5	
MW7	05/15/98	<1	NA	0.85	<0.5	1.5	0.61	6.9	NA	NA	32	<1	
MW7	11/05/98	<1	NA	1.5	<0.5	2.3	<0.5	8.2	NA	NA	190	<1	

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW7	06/03/99	<1	NA	0.88	<1	2.1	0.79	8.0	NA	NA	200	<1	
MW7	11/09/99	<1	<0.5	1.2	<0.5	<1	0.87	8.5	<0.5	<0.5	37	<1	
MW7	03/14/00	<5	<5	<5	<5	<5	NA	<5	<5	<5	18	<5	
MW7	09/19/00	<5	<5	<5	18	19	NA	<5	<5	<5	73	23	Low-flow, micro-purge sampling
MW7	03/29/01	<5	<5	NA	<5	<5	<5	4.7 J	NA	NA	51	<5	Low-flow, micro-purge sampling
MW7	09/08/01	<5	<5	<5	<5	<5	<5	5.1	<5	<5	56	<5	Low-flow, micro-purge sampling
MW7	03/12/02	<5	<5	<5	<5	<5	1.5 J	5.2	<5	<5	64	<5	Low-flow, micro-purge sampling
MW7	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/20/03	<5	<5	<5	<5	<5	<5	5.1	<5	<5	95	<5	Low-flow, micro-purge sampling
MW7	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/10/04	<5	<5	<5	<5	<5	2.0 J	3.4 J	<5	<5	75	<5	Low-flow, micro-purge sampling
MW7	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/24/05	<1.0	<1.0	0.70 J	<0.50	0.68 J	2.9	4.8	<0.50	<1.0	93	<1.0	Low-flow, micro-purge sampling
MW7	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/01/06	<5	<5	<5	<5	<5	1.5 J	5.1	<5	<5	54	<5	Low-flow, micro-purge sampling
MW7	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/13/07	<0.8	<1	0.9	<1	<0.8	0.8	6	<0.5	<0.8	41	<2	Low-flow, micro-purge sampling
MW7	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/18/08	<0.8	<1	<0.8	<1	<0.8	2	2	<0.5	<0.8	62	<2	Low-flow, micro-purge sampling
MW7	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW7	03/11/09	<0.8	<1	<0.8	<1	<0.8	<0.8	3	<0.5	<0.8	23	<2	Low-flow, micro-purge sampling
MW10	02/19/97	<1	NA	<1	3	<1	<1	<1	NA	NA	44	<5	
MW10	09/18/97	<1	NA	<1	<1	4	<1	<1	NA	NA	55	8	
MW10	05/15/98	<1	NA	4.5	50	27	6.8	9	NA	NA	240	63	
MW10	11/05/98	<1	NA	1.7	11	18	3.1	3.2	NA	NA	85	17	
MW10	06/03/99	<1	NA	4.4	40	28	6.9	12	NA	NA	240	43	
MW10	11/09/99	<5	<2.5	<2.5	<2.5	<5	3.1	<5	<2.5	2.6	170	<5	
MW10	03/14/00	<5	<5	<5	<5	25	NA	7.4	<5	<5	176	16	
MW10	09/19/00	<5	<5	<5	99	<5	NA	<5	23	<5	<5	290	Low-flow, micro-purge sampling
MW10	03/29/01	<5	<5	NA	26	19	<5	8.1	NA	NA	119	<5	Low-flow, micro-purge sampling
MW10	09/08/01	<5	<5	<5	13	12	<5	8.2	<5	<5	69	<5	Low-flow, micro-purge sampling
MW10	03/12/02	<5	<5	1.0 J	13	13	1.5 J	5.8	<5	<5	63	20	Low-flow, micro-purge sampling
MW10	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/20/03	<5	<5	<5	10	8.0	<5	9.0	<5	<5	44	13	Low-flow, micro-purge sampling
MW10	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW10	03/10/04	<5	<5	<5	21	16	<5	8.5	<5	<5	38	21	Low-flow, micro-purge sampling
MW10	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/24/05	<1.0	<1.0	<1.0	<0.50	0.59 J	<1.0	1.1	<0.50	<1.0	45	<1.0	Low-flow, micro-purge sampling
MW10	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/01/06	<5	<5	<5	<5	<5	<5	1.3 J	<5	<5	48	<5	Low-flow, micro-purge sampling
MW10	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	25	<2	Low-flow, micro-purge sampling
MW10	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/18/08	<0.8	<1	<0.8	32	37	<0.8	7	<0.5	<0.8	37	29	Low-flow, micro-purge sampling
MW10	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW10	03/11/09	<0.8	<1	<0.8	11	19	<0.8	5	<0.5	<0.8	33	8	Low-flow, micro-purge sampling
MW11	02/19/97	<1	NA	<1	23	35	<1	5	NA	NA	38	15	
MW11	09/18/97	<1	NA	<1	22	36	<1	11	NA	NA	57	14	
MW11	05/15/98	<1	NA	1.4	28	47	1.4	7.7	NA	NA	54	19	
MW11	11/05/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW11	06/03/99	<1	NA	<1	14	29	1.6	4.8	NA	NA	35	8.5	
MW11	11/09/99	<1	<0.5	2.0	36	57	1.8	12	<0.5	<0.5	62	31	
MW11	03/14/00	<5	<5	<5	<5	49	NA	5.9	<5	<5	48	7.8	
MW11	09/19/00	<5	<5	<5	<5	<5	NA	<5	<5	<5	26	<5	Low-flow, micro-purge sampling
MW11	03/29/01	<5	<5	NA	18	41	<5	6.1	NA	NA	50	<5	Low-flow, micro-purge sampling
MW11	09/08/01	<5	<5	<5	16	32	<5	5.8	<5	<5	46	<5	Low-flow, micro-purge sampling
MW11	03/12/02	<5	<5	<5	22	38	1.2 J	2.8 J	<5	<5	38	15	Low-flow, micro-purge sampling
MW11	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW11	03/20/03	<5	<5	<5	17	26	<5	9.3	<5	<5	63	9.1	Low-flow, micro-purge sampling
MW11	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW11	03/10/04	<5	<5	<5	16	27	2.3 J	6.0	<5	<5	66	7.0	Low-flow, micro-purge sampling
MW11	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW11	03/24/05	<1.0	<1.0	1.6	17	30	3.8	9.4	<0.50	<1.0	72	9.7	Low-flow, micro-purge sampling
MW11	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW11	03/01/06	<5	<5	<5	17	27	2.4 J	4.5 J	<5	<5	65	8.6	Low-flow, micro-purge sampling
MW11	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW11	03/13/07	<0.8	<1	1	26	38	3	3	<0.5	<0.8	67	15	Low-flow, micro-purge sampling
MW11	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW11	03/18/08	<0.8	<1	1	23	36	4	5	<0.5	<0.8	73	13	Low-flow, micro-purge sampling
MW11	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW11	03/11/09	<0.8	<1	1	9	20	4	6	<0.5	<0.8	64	4	Low-flow, micro-purge sampling
MW12	02/19/97	<1	NA	<1	13	21	2	<1	NA	NA	2	<5	
MW12	09/18/97	<1	NA	<1	14	24	<1	<1	NA	NA	2	24	
MW12	05/15/98	<1	NA	<0.5	150	280	<0.5	2.4	NA	NA	8.4	590	
MW12	11/05/98	<1	NA	<0.5	16	32	<0.5	<1	NA	NA	3.2	47	
MW12	06/03/99	<1	NA	<1	180	340	<1	3.5	NA	NA	10	560	
MW12	11/09/99	<1	<0.5	<0.5	190	240	0.66	3.1	<0.5	<0.5	10	840	
MW12	03/14/00	<5	<5	<5	<5	283	NA	<5	<5	<5	7.2	243	
MW12	09/19/00	<5	<5	<5	<5	74	NA	<5	<5	<5	<5	<5	Low-flow, micro-purge sampling
MW12	03/29/01	<5	<5	NA	117	192	<5	<5	NA	NA	5.3	177	Low-flow, micro-purge sampling
MW12	09/08/01	<5	<5	<5	102	159	<5	<5	<5	<5	4.3 J	<5	Low-flow, micro-purge sampling
MW12	03/12/02	<5	<5	<5	26	48	<5	<5	<5	<5	2.9 J	96	Low-flow, micro-purge sampling
MW12	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/20/03	<5	<5	<5	42	<5	<5	<5	<5	<5	4.9 J	133	Low-flow, micro-purge sampling
MW12	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/10/04	<5	<5	<5	34	66	<5	<5	<5	<5	3.7 J	118	Low-flow, micro-purge sampling
MW12	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/24/05	<1.0	<1.0	<1.0	31	62	<1.0	0.87 J	<0.50	<1.0	3.6	98	Low-flow, micro-purge sampling
MW12	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/01/06	<5	<5	<5	17	41	<5	<5	<5	<5	2.2 J	58	Low-flow, micro-purge sampling
MW12	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/13/07	<0.8	<1	<0.8	20	35	<0.8	<0.8	<0.5	<0.8	3	64	Low-flow, micro-purge sampling
MW12	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/18/08	<0.8	<1	<0.8	19	61	<0.8	<0.8	<0.5	<0.8	3	59	Low-flow, micro-purge sampling
MW12	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW12	03/11/09	<0.8	<1	<0.8	11	52	<0.8	<0.8	<0.5	<0.8	3	31	Low-flow, micro-purge sampling
MW13	02/19/97	<1	NA	6	3	3	5	56	NA	NA	200	<5	
MW13	09/18/97	<1	NA	5	<1	4	5	42	NA	NA	170	<5	
MW13	05/15/98	<1	NA	6.8	2.8	4.7	8.1	66	NA	NA	230	2.7	
MW13	11/05/98	<1	NA	6.2	2.3	3.2	5.7	39	NA	NA	170	3.5	
MW13	06/03/99	<1	NA	3	2	3.2	5.3	28	NA	NA	150	1.6	
MW13	11/09/99	<5	<2.5	3.5	<2.5	<5	<2.5	60	<2.5	<2.5	89	<5	
MW13	03/14/00	<5	<5	<5	<5	<5	NA	40	<5	<5	<5	<5	
MW13	09/19/00	<5	<5	<5	19	44	NA	8	35	<5	49	9.6	Low-flow, micro-purge sampling

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW13	03/29/01	<5	5.4	NA	<5	<5	4.9 J	26	NA	NA	107	<5	Low-flow, micro-purge sampling
MW13	09/08/01	<5	<5	<5	<5	<5	<5	20	<5	<5	88	<5	Low-flow, micro-purge sampling
MW13	03/12/02	<5	<5	2.8 J	1.2 J	2.0 J	6.6	38	<5	<5	142	<5	Low-flow, micro-purge sampling
MW13	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/21/03	<5	<5	<5	<5	<5	6.6	22	<5	<5	98	<5	Low-flow, micro-purge sampling
MW13	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/10/04	<5	<5	1.5 J	<5	1.9 J	4.8 J	12	<5	<5	100	<5	Low-flow, micro-purge sampling
MW13	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/24/05	<1.0	<1.0	0.95 J	0.51	2.2	3.3	7.0	0.89	<1.0	60	0.41 J	Low-flow, micro-purge sampling
MW13	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/01/06	<5	<5	1.4 J	1.9 J	2.5	5.3	13	<5	<5	109	1.2 J	Low-flow, micro-purge sampling
MW13	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/13/07	<0.8	<1	3	2	3	8	22	<0.5	<0.8	140	<2	Low-flow, micro-purge sampling
MW13	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/18/08	<0.8	<1	4	2	2	14	38	<0.5	<0.8	170	<2	Low-flow, micro-purge sampling
MW13	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well sampled annually (during 1st quarter)
MW13	03/11/09	<0.8	<1	1	<1	2	4	13	<0.5	<0.8	66	<2	Low-flow, micro-purge sampling
MW14	09/08/01	<5	<5	<5	<5	<5	<5	76	17	<5	64	<5	Low-flow, micro-purge sampling
MW14	03/12/02	<5	<5	2.9 J	<5	<5	1.5 J	75	13	<5	57	<5	Low-flow, micro-purge sampling
MW14	09/17/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/21/03	<5	<5	<5	<5	<5	<5	78	<5	<5	75	<5	Low-flow, micro-purge sampling
MW14	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/10/04	<5	<5	2.2 J	<5	1.3 J	4.1 J	64	<5	<5	73	<5	Low-flow, micro-purge sampling
MW14	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/24/05	0.30 J	0.62 J	3.2	<0.50	1.6	5.3	94	2.3	<1.0	72	<1.0	Low-flow, micro-purge sampling
MW14	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/01/06	<5	<5	1.5 J	<5	1.0 J	7.5	72	<5	<5	57	<5	Low-flow, micro-purge sampling
MW14	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/13/07	<0.8	<1	3	<1	0.9	6	87	<0.5	<0.8	66	<2	Low-flow, micro-purge sampling
MW14	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/18/08	<0.8	<1	3	<1	0.9	4	83	<0.5	<0.8	67	<2	Low-flow, micro-purge sampling
MW14	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Sample not analyzed for VOCs
MW14	03/11/09	<0.8	<1	2	<1	<0.8	4	62	<0.5	<0.8	45	<2	Low-flow, micro-purge sampling

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES													
Trip Blank	03/20/03	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trip Blank	03/21/03	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trip Blank	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/10/04	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trip Blank	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/24/05	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
Trip Blank	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/01/06	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trip Blank	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
Trip Blank	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/18/08	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
Trip Blank	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Trip blank not analyzed for VOCs
Trip Blank	03/11/09	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
Equipment Blank	03/20/03	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Equipment Blank	09/24/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/10/04	<5	<5	<5	<5	3.3 J	<5	<5	<5	<5	<5	<5	
Equipment Blank	09/27/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/24/05	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	
Equipment Blank	09/13/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/01/06	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Equipment Blank	09/12/06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
Equipment Blank	09/11/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/18/08	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
Equipment Blank	09/16/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Equipment blank not analyzed for VOCs
Equipment Blank	03/11/09	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	<1	<2	
MW3	03/21/03	<5	<5	<5	<5	<5	<5	182	<5	<5	47	<5	
Duplicate	03/21/03	<5	<5	<5	<5	<5	<5	172	<5	<5	44	<5	Duplicate of sample MW3
MW3	03/10/04	<5	<5	<5	<5	<5	<5	76	<5	<5	33	<5	
Duplicate	03/10/04	<5	<5	<5	<5	<5	<5	81	<5	<5	35	<5	Duplicate of sample MW3

TABLE 6
VOC CONCENTRATIONS IN GROUNDWATER
FORMER H. KRAMER & COMPANY FACILITY
EL SEGUNDO, CALIFORNIA

Location / Well I.D.	Date Sampled	1,1,1-TCA	1,1-DCA	1,1-DCE	Carbon tetrachloride	Chloroform	cis-1,2-DCE	PCE	Toluene	trans-1,2-DCE	TCE	Trichloro-fluoromethane	Comments
		Concentrations in micrograms per liter (ug/L)											
Primary MCL (ug/L)	--	200	5	6	0.5	NA	6	5	150	10	5	150	
MW10	03/24/05	<1.0	<1.0	<1.0	<0.50	0.59 J	<1.0	1.1	<0.50	<1.0	45	<1.0	
Duplicate	03/24/05	<1.0	<1.0	<1.0	<0.50	0.82 J	<1.0	1.3	<0.50	<1.0	61	<1.0	Duplicate of sample MW10
MW10	03/01/06	<5	<5	<5	<5	<5	<5	1.3 J	<5	<5	48	<5	
Duplicate	03/01/06	<5	<5	<5	<5	<5	<5	1.1 J	<5	<5	48	<5	Duplicate of sample MW10
MW10	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	25	<2	
Duplicate	03/13/07	<0.8	<1	<0.8	<1	<0.8	<0.8	<0.8	<0.5	<0.8	27	<2	Duplicate of sample MW10
MW10	03/18/08	<0.8	<1	<0.8	32	37	<0.8	7	<0.5	<0.8	37	29	
Duplicate	03/18/08	<0.8	<1	<0.8	32	36	<0.8	7	<0.5	<0.8	38	36	Duplicate of sample MW10
MW10	03/11/09	<0.8	<1	<0.8	11	19	<0.8	5	<0.5	<0.8	33	8	
Duplicate	03/11/09	<0.8	<1	<0.8	11	19	<0.8	4	<0.5	<0.8	31	9	Duplicate of sample MW10

LEGEND

VOC = Volatile organic compound
TCA = Trichloroethane
DCA = Dichloroethane
DCE = Dichloroethene
PCE = Tetrachloroethene

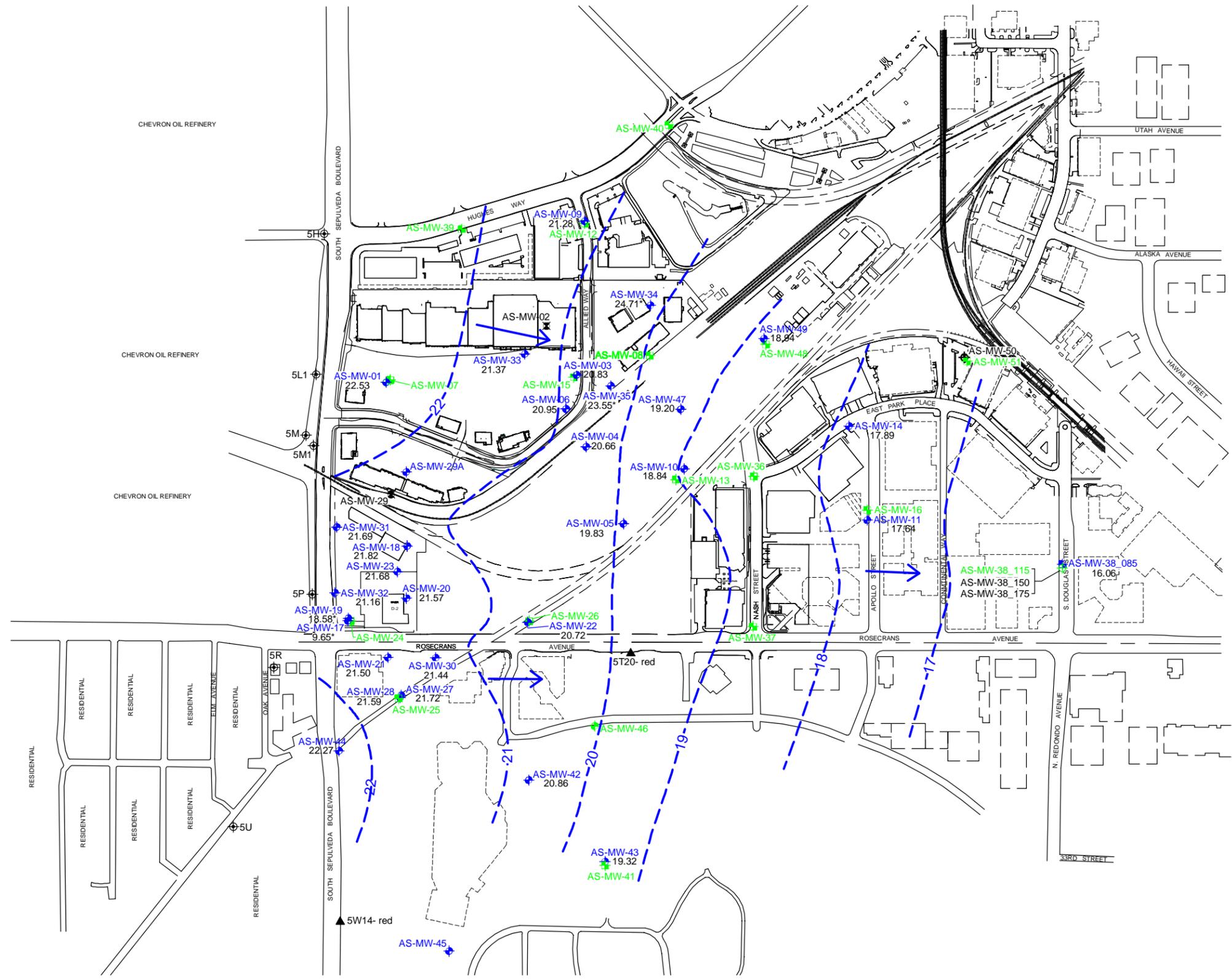
TCE = Trichloroethene
MCL = Maximum contaminant level
<Number = Not detected at or above stated method detection limit
NA = Not available / analyzed
J = Value is between method detection and laboratory reporting limits

ARCADIS

Attachment A

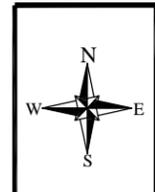
DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 GW1



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ◻ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 16.06 ○ GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (MSL)
- 17- ○ LINE OF APPROXIMATELY EQUAL GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
- * ○ GROUNDWATER ELEVATION DATA NOT USED
- APPARENT DIRECTION OF GROUNDWATER FLOW

- NOTES:
1. GROUNDWATER ELEVATIONS WERE MEASURED FEBRUARY 21, 2008, DURING FIRST QUARTER MONITORING EVENT.
 2. ELEVATION DATA ARE QUESTIONABLE FOR SOME WELLS DUE TO CHANGES AT THE TOP OF CASING DURING SITE DEVELOPMENT.



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 IRVINE, CA 92612

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REVIEWED DATE	

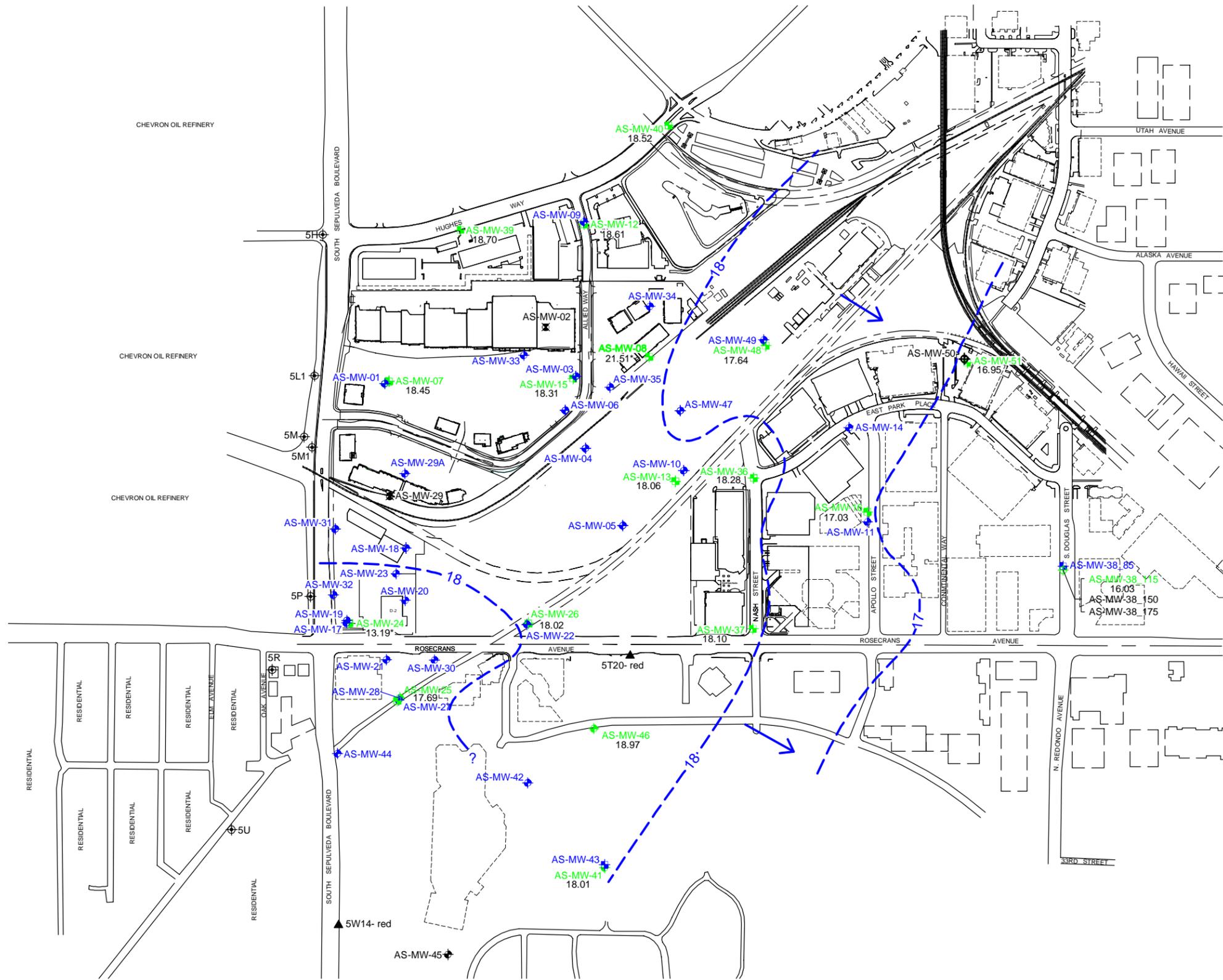
FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

**GROUNDWATER ELEVATION
 CONTOUR MAP
 OLD DUNE SAND
 FEBRUARY 21, 2008**

FIGURE NO. **3**
 PROJECT NO. 495108-0281

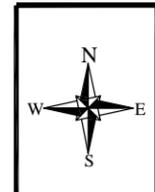
DATE PLOTTED: 3/26/08

FILE: 495108-0281\0308-0281 GW2



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ☒ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20- red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 16.03 GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (MSL)
- 18 LINE OF APPROXIMATELY EQUAL GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
- APPARENT DIRECTION OF GROUNDWATER FLOW
- * GROUNDWATER ELEVATION DATA NOT USED

- NOTES:
- GROUNDWATER ELEVATIONS WERE MEASURED FEBRUARY 21, 2008, DURING FIRST QUARTER MONITORING EVENT.
 - ELEVATION DATA ARE QUESTIONABLE FOR SOME WELLS DUE TO CHANGES AT THE TOP OF CASING DURING SITE DEVELOPMENT.



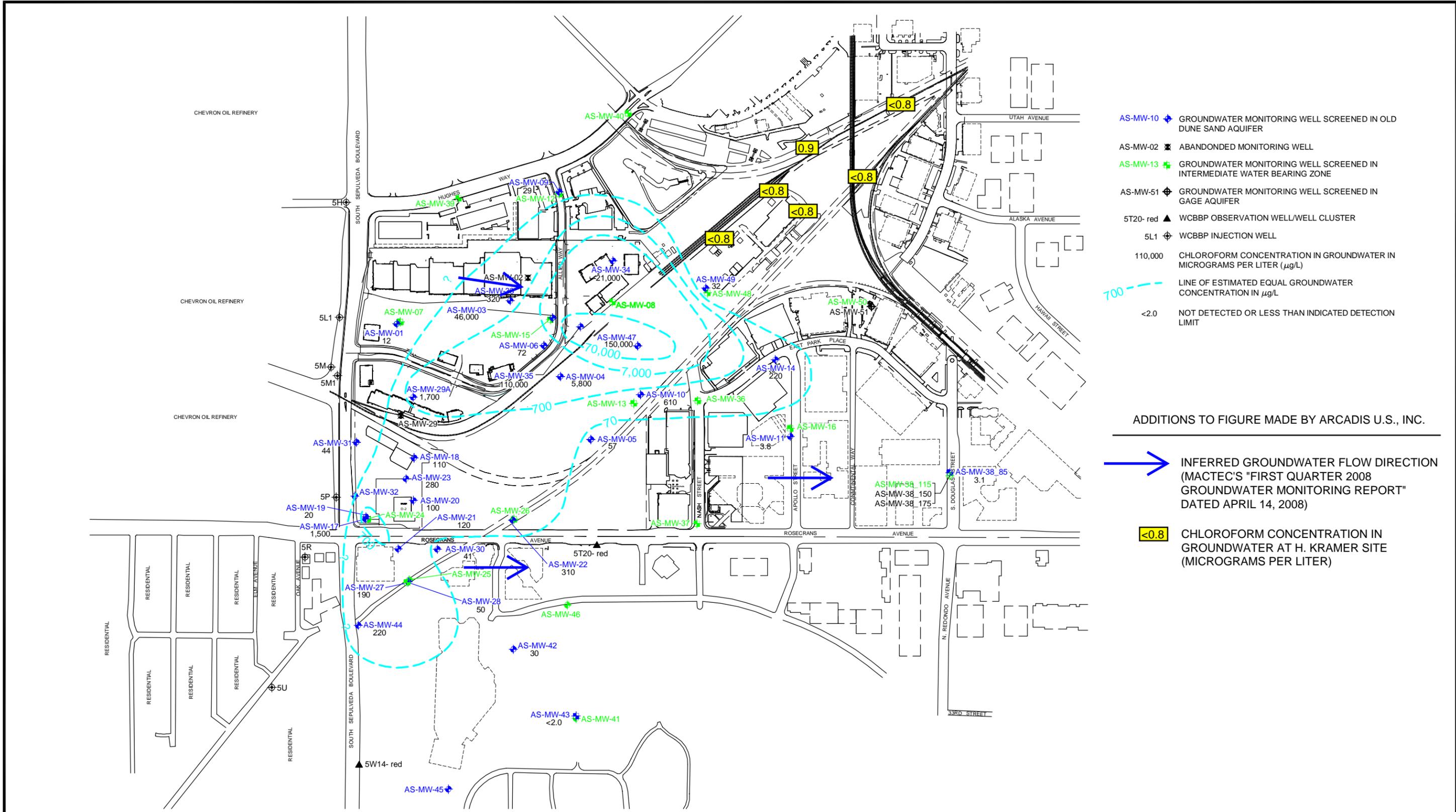
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REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

**GROUNDWATER ELEVATION
 CONTOUR MAP
 INTERMEDIATE WATER BEARING ZONE
 FEBRUARY 21, 2008**

FIGURE NO.
4
 PROJECT NO.
 495108-0281



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 + GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 110,000 CHLOROFORM CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 700 --- LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN $\mu\text{g/L}$
- <math><2.0</math> NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

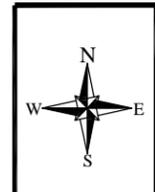
ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

<math><0.8</math> CHLOROFORM CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 CHLOROFORM2



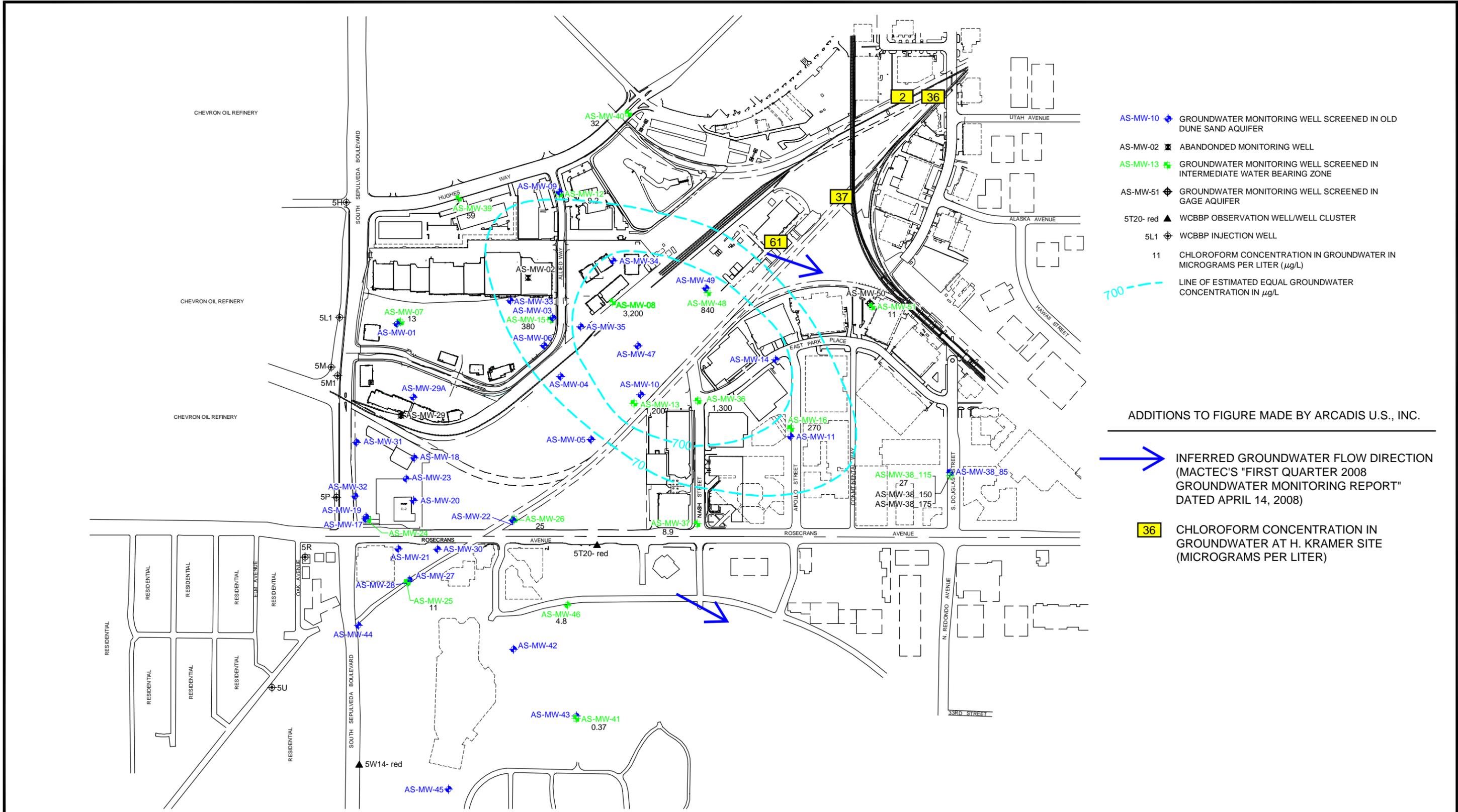
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DATE	4/07
REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

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CHLOROFORM CONCENTRATIONS IN OLD DUNE SAND AQUIFER FIRST QUARTER 2008

FIGURE NO. **6**
 PROJECT NO. 495108-0281



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20- red ▲ WCCBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCCBP INJECTION WELL
- 11 CHLOROFORM CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- 700 - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN µg/L

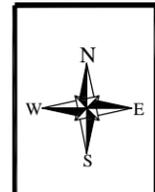
ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

36 CHLOROFORM CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 CHLOROFORM



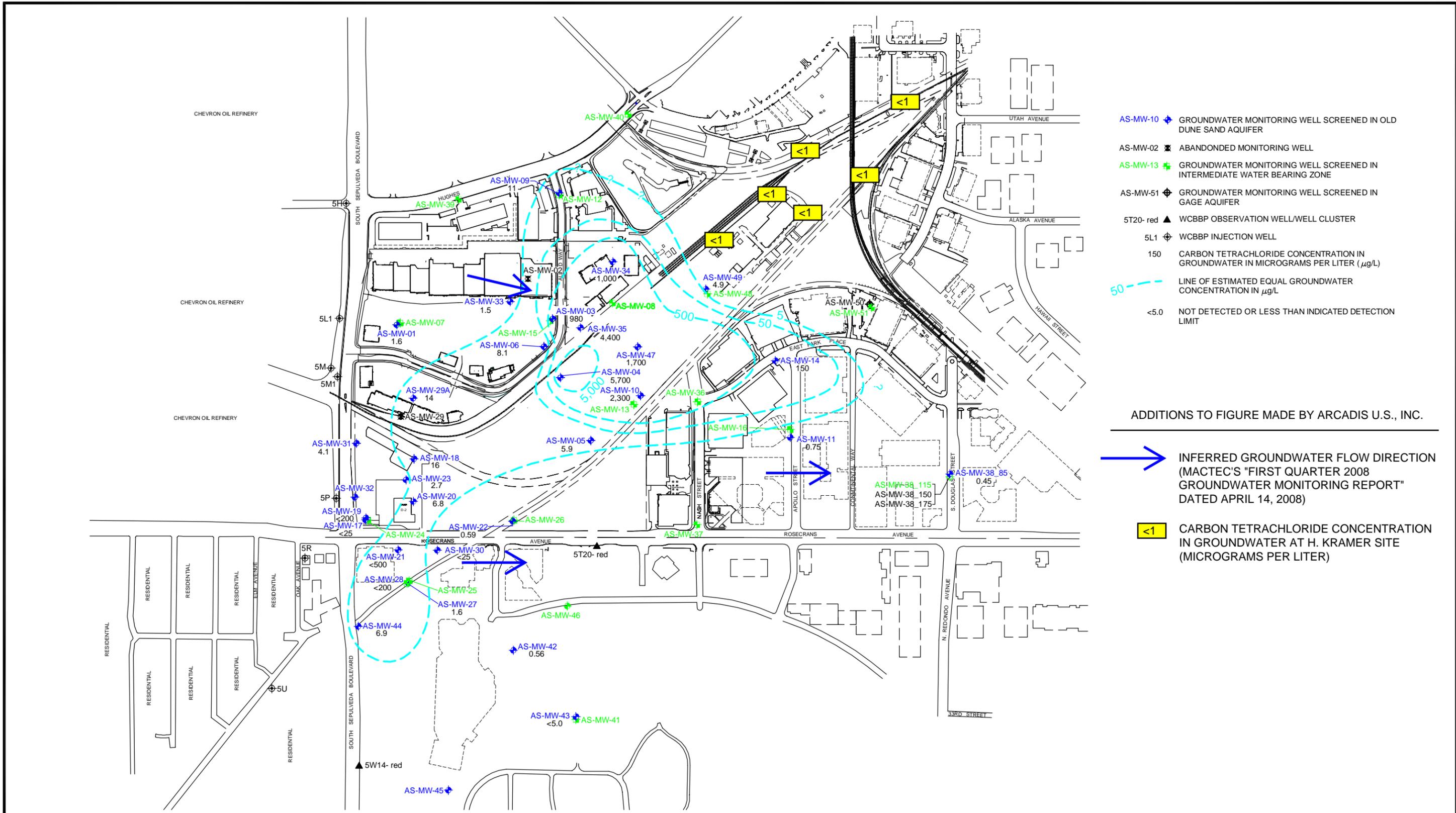
MACTEC
 2171 CAMPUS DRIVE, SUITE 100
 IRVINE, CA 92612

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REVISED	3/08
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REVIEWED DATE	

FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

CHLOROFORM CONCENTRATIONS IN INTERMEDIATE WATER BEARING ZONE FIRST QUARTER 2008

FIGURE NO. **7**
 PROJECT NO. 495108-0281



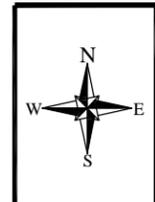
- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
 - AS-MW-02 ✖ ABANDONED MONITORING WELL
 - AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
 - AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
 - 5T20-red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
 - 5L1 ◆ WCBBP INJECTION WELL
 - 150 CARBON TETRACHLORIDE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
 - 50 - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN µg/L
 - <5.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT
- ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

☐ <1 CARBON TETRACHLORIDE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 CT1



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2171 CAMPUS DRIVE, SUITE 100
IRVINE, CA 92612

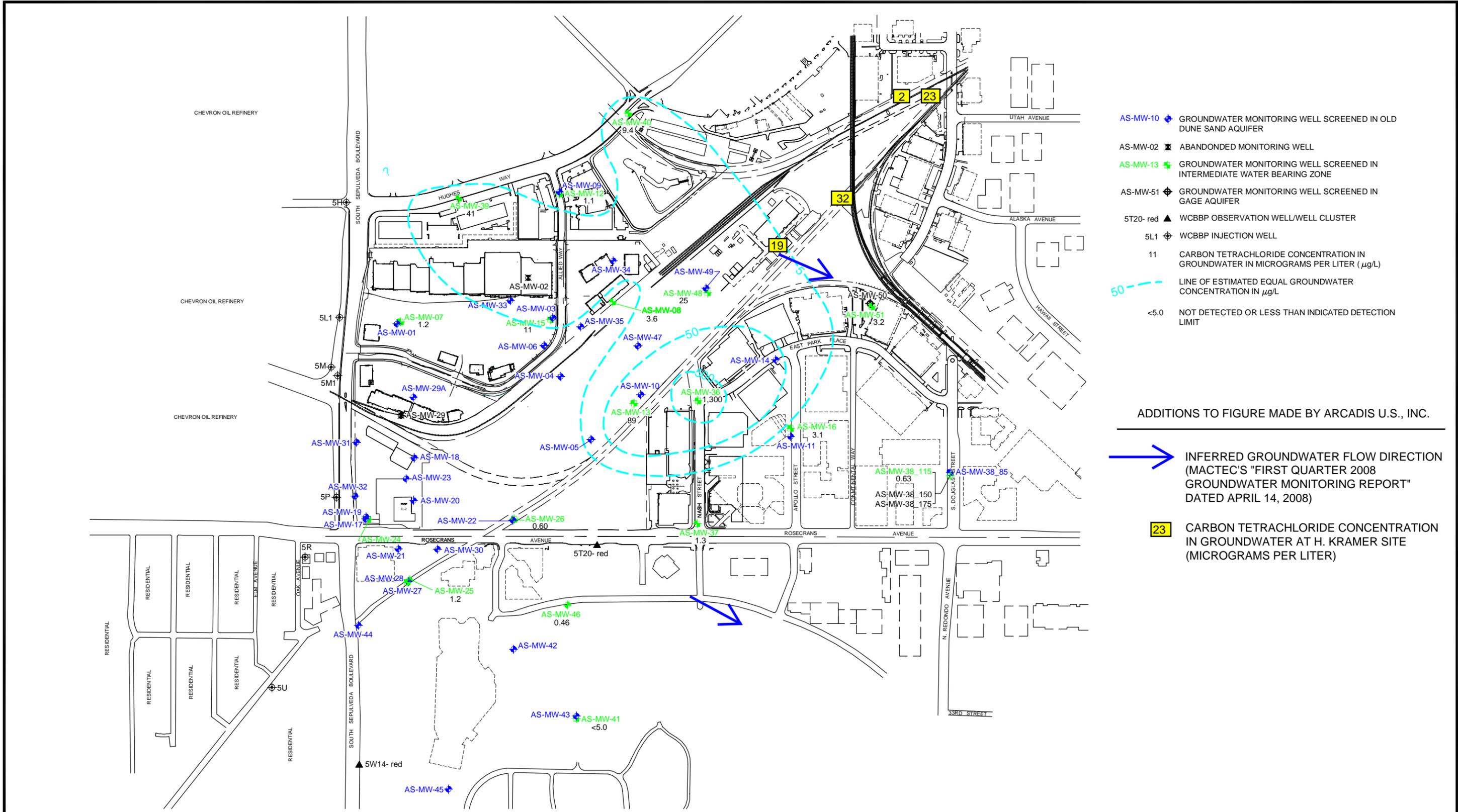
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DATE	4/07
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REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE
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**CARBON TETRACHLORIDE CONCENTRATIONS IN OLD DUNE SAND AQUIFER
FIRST QUARTER 2008**

FIGURE NO. **8**

PROJECT NO. 495108-0281



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✕ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20- red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 11 CARBON TETRACHLORIDE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 50 - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN $\mu\text{g/L}$
- <math><5.0</math> NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

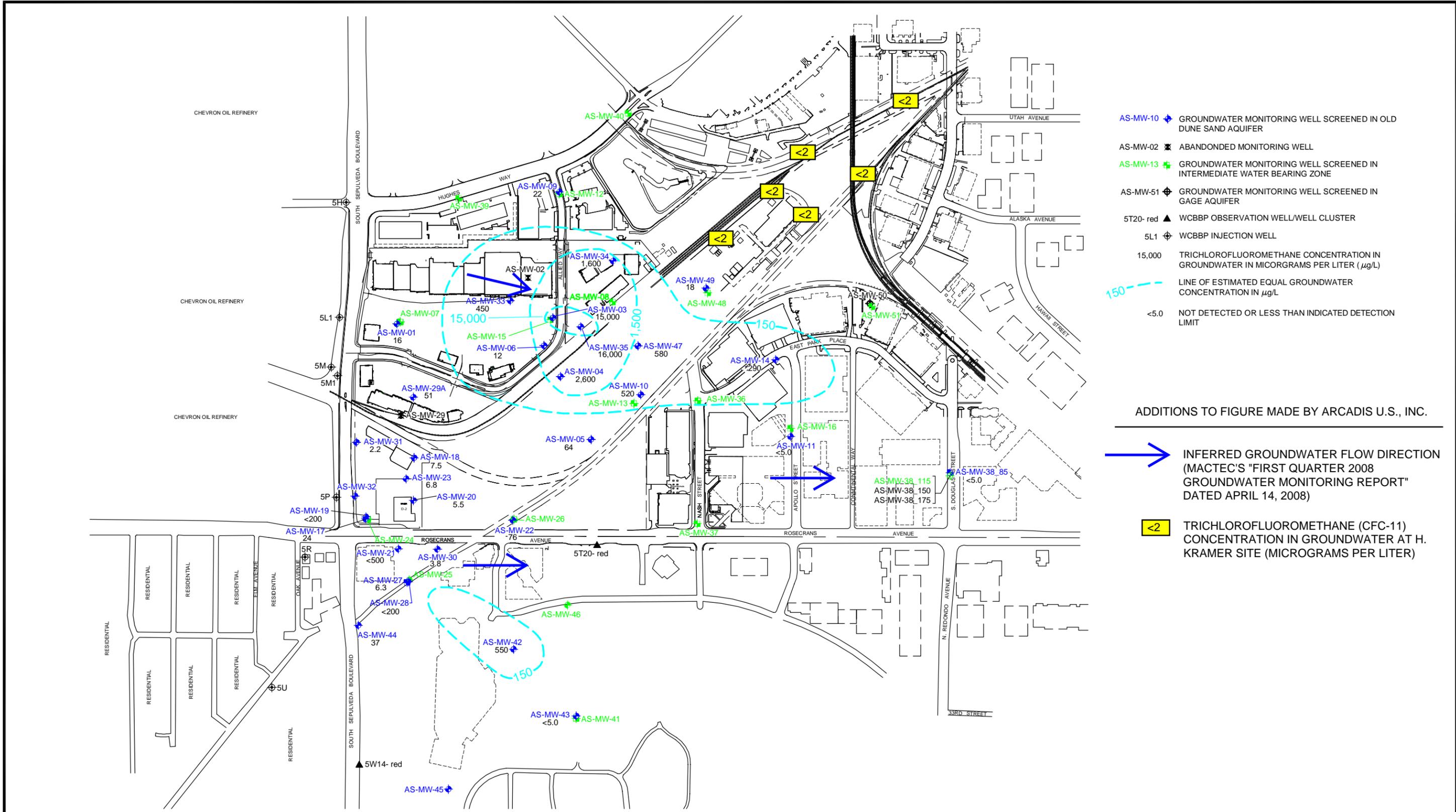
- INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)
- 23 CARBON TETRACHLORIDE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 CT2



		DWG BY: JWY DATE: 4/07 REV BY: MY REVISED: 3/08 REVIEWED BY: REVIEWED DATE:	FORMER HONEYWELL SITE 850 S. Sepulveda Boulevard, El Segundo, California	FIGURE NO. 9
	2171 CAMPUS DRIVE, SUITE 100 IRVINE, CA 92612	CARBON TETRACHLORIDE CONCENTRATIONS IN INTERMEDIATE WATER BEARING ZONE FIRST QUARTER 2008		PROJECT NO. 495108-0281



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCCBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCCBP INJECTION WELL
- 15,000 TRICHLOROFLUOROMETHANE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- 150- - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN µg/L
- <5.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

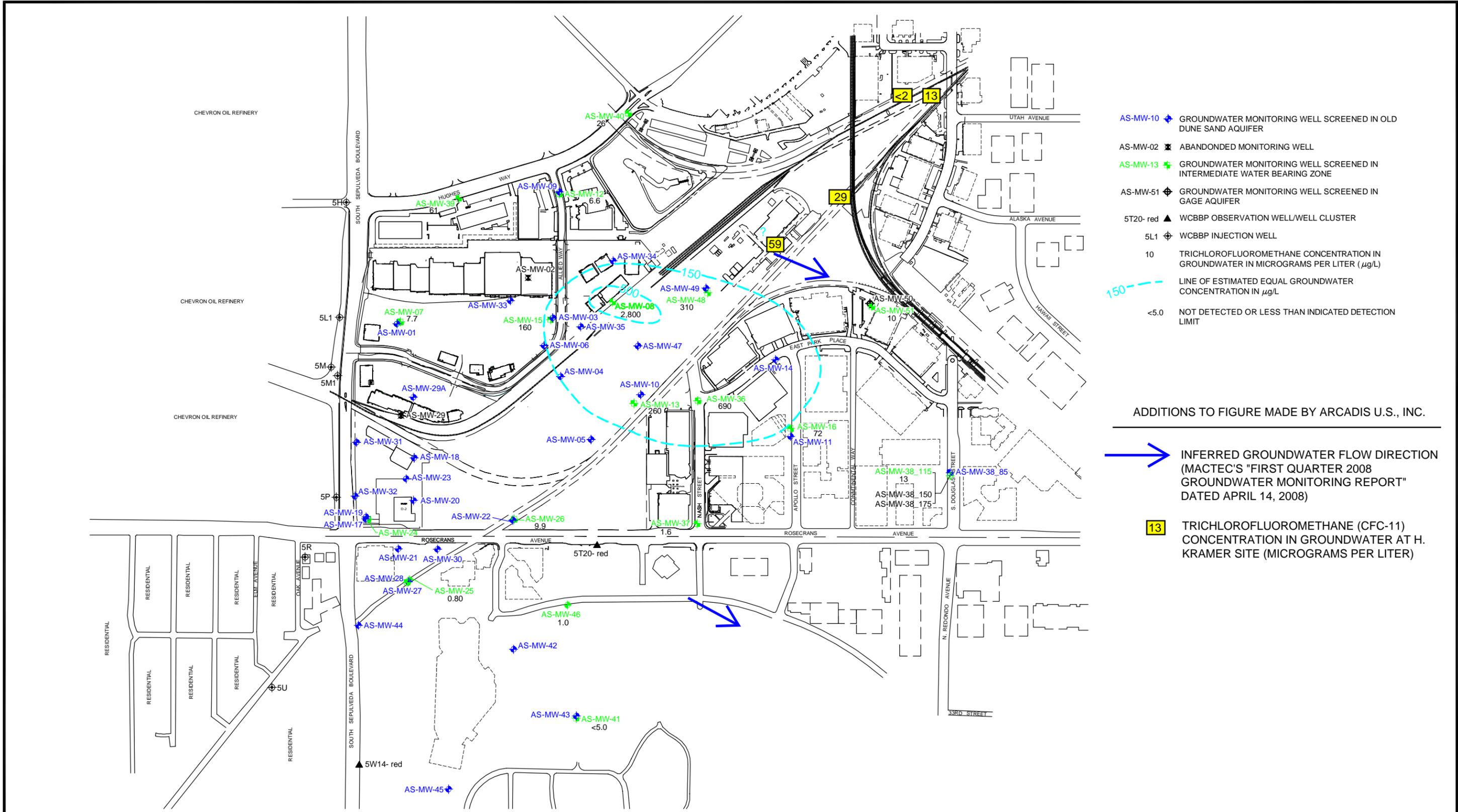
- ➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)
- <2 TRICHLOROFLUOROMETHANE (CFC-11) CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

FILE: 495108-0281\0308-0281 Trich1



		FORMER HONEYWELL SITE 850 S. Sepulveda Boulevard, El Segundo, California	
		DWG BY	JWY
		DATE	4/07
		REV BY	MY
2171 CAMPUS DRIVE, SUITE 100 IRVINE, CA 92612		REVISED	3/08
		REVIEWED BY	
		REVIEWED DATE	
TRICHLOROFLUOROMETHANE (CFC-11) CONCENTRATIONS IN OLD DUNE SAND AQUIFER FIRST QUARTER 2008			FIGURE NO. 10 PROJECT NO. 495108-0281



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20- red ▲ WCCBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCCBP INJECTION WELL
- 10 TRICHLOROFLUOROMETHANE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 150 - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN $\mu\text{g/L}$
- <5.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

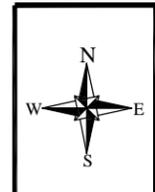
ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

13 TRICHLOROFLUOROMETHANE (CFC-11) CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08

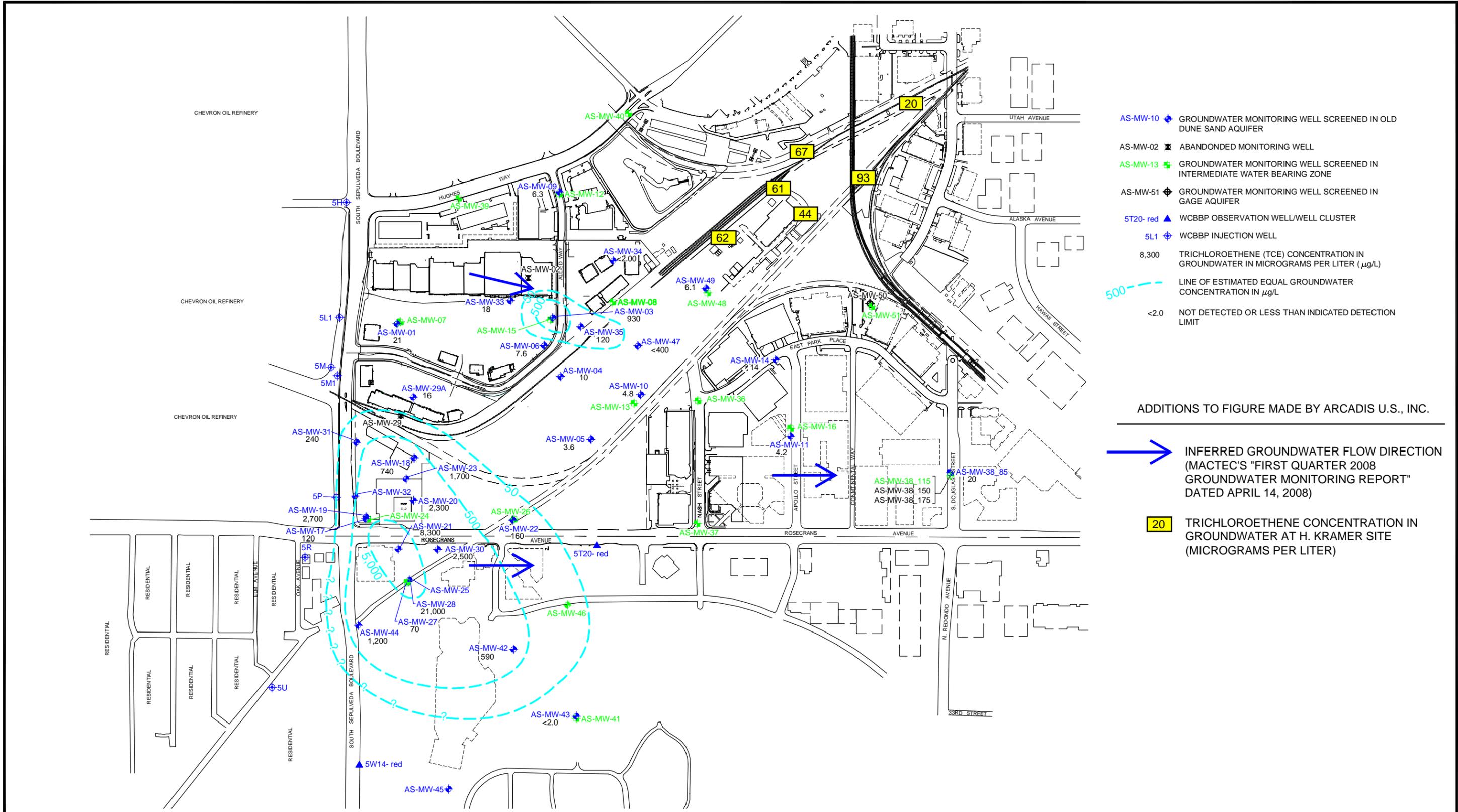
FILE: 495108-0281\0308-0281 Trich2



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 IRVINE, CA 92612

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REVIEWED DATE	

FORMER HONEYWELL SITE 850 S. Sepulveda Boulevard, El Segundo, California	
TRICHLOROFLUOROMETHANE (CFC-11) CONCENTRATIONS IN INTERMEDIATE WATER BEARING ZONE FIRST QUARTER 2008	FIGURE NO. 11 PROJECT NO. 495108-0281



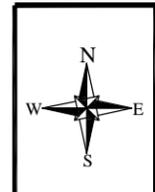
- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✕ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 8,300 TRICHLOROETHENE (TCE) CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- 500- LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN µg/L
- <2.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

20 TRICHLOROETHENE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08



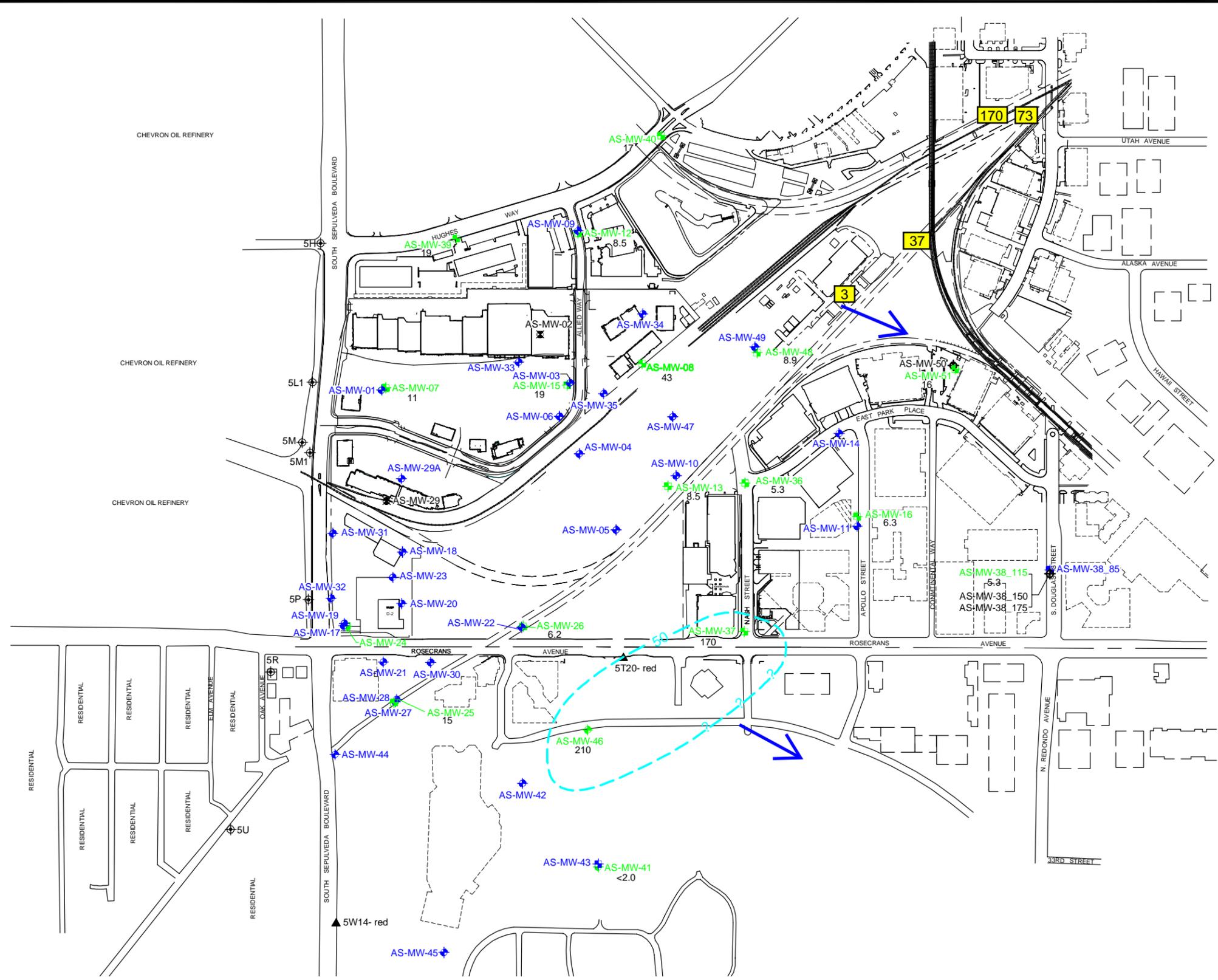
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DATE	4/07
REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE 850 S. Sepulveda Boulevard, El Segundo, California	
TRICHLOROETHENE IN OLD DUNE SAND AQUIFER FIRST QUARTER 2008	FIGURE NO. 12
PROJECT NO. 495108-0281	

DATE PLOTTED: 4/1/08

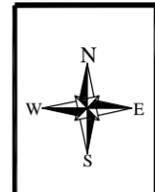
FILE: 495108-0281\0308-0281 TCE2



- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 + GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCCBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCCBP INJECTION WELL
- 16 TRICHLOROETHENE (TCE) CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 50 - - - LINE OF ESTIMATED EQUAL TCE CONCENTRATION IN $\mu\text{g/L}$

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

- INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)
- TRICHLOROETHENE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)



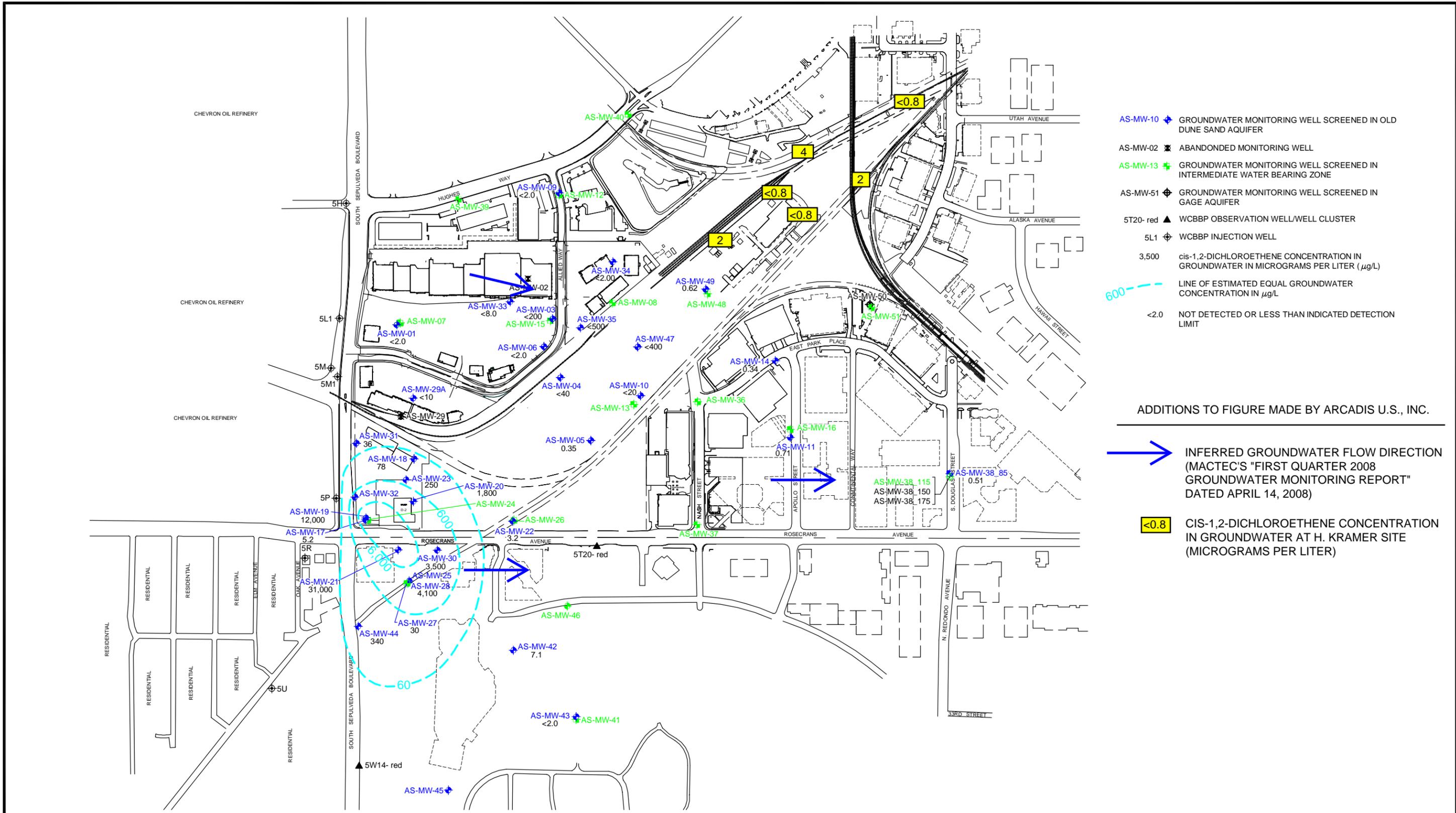
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REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

**TRICHLOROETHENE
 CONCENTRATIONS IN INTERMEDIATE
 WATER BEARING ZONE
 FIRST QUARTER 2008**

FIGURE NO.
13
 PROJECT NO.
 495108-0281



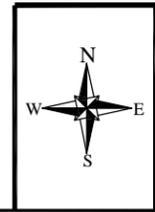
- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✖ ABANDONED MONITORING WELL
- AS-MW-13 ◆ GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCBBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCBBP INJECTION WELL
- 3,500 cis-1,2-DICHLOROETHENE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- 600- - - - LINE OF ESTIMATED EQUAL GROUNDWATER CONCENTRATION IN µg/L
- <2.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

<0.8 CIS-1,2-DICHLOROETHENE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08



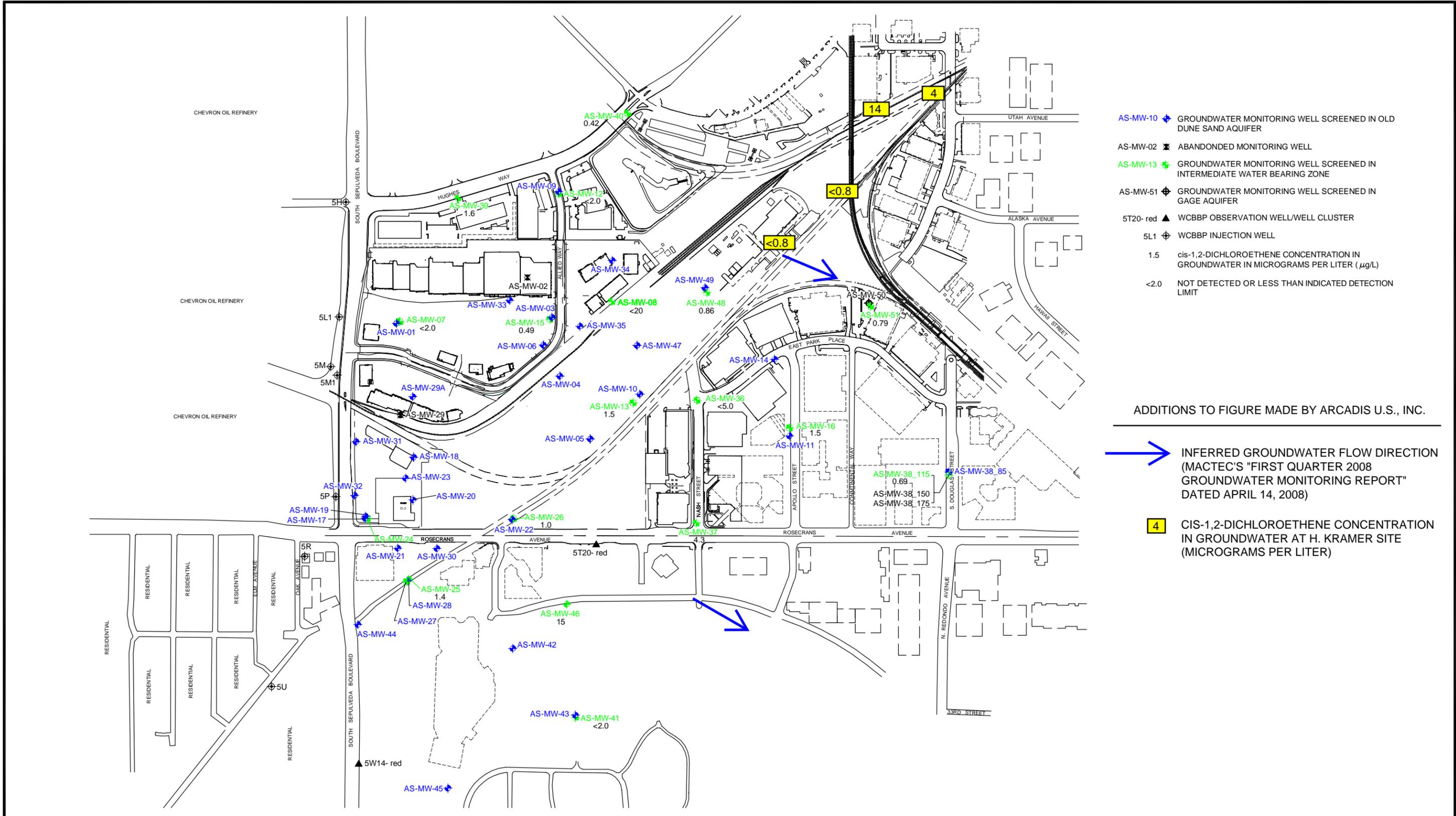
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 IRVINE, CA 92612

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DATE	4/07
REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

CIS-1,2-DICHLOROETHENE CONCENTRATIONS IN OLD DUNE SAND AQUIFER FIRST QUARTER 2008

FIGURE NO. **14**
 PROJECT NO. 495108-0281



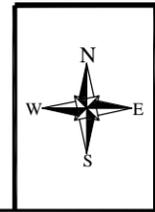
- AS-MW-10 ◆ GROUNDWATER MONITORING WELL SCREENED IN OLD DUNE SAND AQUIFER
- AS-MW-02 ✕ ABANDONED MONITORING WELL
- AS-MW-13 + GROUNDWATER MONITORING WELL SCREENED IN INTERMEDIATE WATER BEARING ZONE
- AS-MW-51 ◆ GROUNDWATER MONITORING WELL SCREENED IN GAGE AQUIFER
- 5T20-red ▲ WCCBP OBSERVATION WELL/WELL CLUSTER
- 5L1 ◆ WCCBP INJECTION WELL
- 1.5 cis-1,2-DICHLOROETHENE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- <2.0 NOT DETECTED OR LESS THAN INDICATED DETECTION LIMIT

ADDITIONS TO FIGURE MADE BY ARCADIS U.S., INC.

➔ INFERRED GROUNDWATER FLOW DIRECTION (MACTEC'S "FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT" DATED APRIL 14, 2008)

4 CIS-1,2-DICHLOROETHENE CONCENTRATION IN GROUNDWATER AT H. KRAMER SITE (MICROGRAMS PER LITER)

DATE PLOTTED: 4/1/08



MACTEC
 2171 CAMPUS DRIVE, SUITE 100
 IRVINE, CA 92612

DWG BY	JWY
DATE	4/07
REV BY	MY
REVISED	3/08
REVIEWED BY	
REVIEWED DATE	

FORMER HONEYWELL SITE
 850 S. Sepulveda Boulevard, El Segundo, California

CIS-1,2-DICHLOROETHENE CONCENTRATIONS IN INTERMEDIATE WATER BEARING ZONE FIRST QUARTER 2008

FIGURE NO. **15**
 PROJECT NO. 495108-0281



Mr. Noori Alavi
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013-2343

ARCADIS
320 Commerce
Suite 200
Irvine
California 92602
Tel 714.730.9052
Fax 714.730.9345
www.arcadis-us.com

Subject:

2012 Annual Inspection of Remedial Cap
Former H. Kramer & Company Facility
El Segundo, California

ENVIRONMENTAL

Dear Mr. Alavi:

Date:
August 9, 2012

On behalf of Chevron Environmental Management Company (Chevron EMC), ARCADIS U.S., Inc. (ARCADIS) is submitting this letter report documenting the annual inspection of the remedial cap at the former H. Kramer & Company Facility (the Site) located at One Chapman Way in El Segundo, California (Figures 1 and 2). The concrete asphalt cap was installed at the Site in 1995 to eliminate the direct contact pathways and to minimize infiltration of surface water into the subsurface soil. In December 2001, H. Kramer & Company (H. Kramer) leased a portion of the Site to California Storamasters, a business providing storage for privately owned automobiles, boats, and recreational vehicles (RVs). Prior to occupying the Site, California Storamasters seal coated the asphalt portions of the cap, striped the surface to facilitate the storage activities, installed a new perimeter fence around the cap, and installed an electronic security gate. Since occupying the Site, California Storamasters has expanded and paved portions of the property northeast and southwest of the cap.

Contact:
Allen C. Just, P.E.

Phone:
714.508.2677

Email:
Allen.Just@arcadis-us.com

Our ref:
B0047886.0000.00004

In accordance with the *Asphalt Concrete Pavement Maintenance and Rehabilitation Plan* dated July 24, 1994, the cap is required to be inspected annually to evaluate its structural integrity. ARCADIS performed this annual inspection on March 16, 2012. Since the last annual inspection, minor surficial cracking has occurred in the concrete patch and asphalt patches installed near the entry gate. The concrete drainage channel between cap and perimeter fence is in good condition with some minor surficial cracking, and the collection and drainage area around MTA footing remains free of tenant debris. The overall integrity of the cap remains in good condition. ARCADIS will continue to monitor the condition of the asphalt cap and propose corrective actions, if warranted.

The attached table summarizes the conditions of the primary components contributing to the integrity of the cap. Corrective actions completed on July 17,

Imagine the result

2012 are also documented in the attached table and photographs. The primary components contributing to the integrity of the cap include the following:

- Headwall / drainage channel outlet at northeast corner of property;
- Concrete drainage channel between perimeter fence and headwall;
- Concrete drainage channel between perimeter fence and cap;
- Perimeter drainage channel surrounding cap;
- Drainage at MTA footing;
- Asphalt cap / pavement; and
- Perimeter fence.

In addition to the corrective actions performed to maintain the integrity of the remedial cap, ARCADIS also cleared vegetation from the vacant parcel to allow safe access for future inspections and groundwater monitoring activities, and removed onsite debris (see attached photographs). The next inspection will be conducted in March 2013.

If you have any questions or need additional information, please contact me at 714.508.2677.

Sincerely,

ARCADIS



Allen C. Just, P.E.
Principal Engineer



Attachments:

- Table 1 - Summary of Remedial Cap Inspection
- Figure 1 - Topographic Map of Site Location and Vicinity
- Figure 2 - Site Plan
- Attachment A - Photographs

Copies:

John MacLeod, Chevron EMC, San Ramon, CA
Bill O'Brien, H. Kramer & Company, Chicago, IL
Wayne Mass, Durango, CO

ARCADIS

Table

TABLE 1**Summary of Remedial Cap Inspection
Former H. Kramer & Company Facility
El Segundo, California**

Site Feature Inspected	Observations	Corrective Actions
Headwall at concrete drainage channel	Structural condition is acceptable; soil, debris, and vegetation near headwall; end of drainage pipe partially obstructed. Soil in drainage channel near headwall (Photo 1).	Cleared soil, debris, and vegetation from headwall area; cleared soil from drainage pipe outlet. Cleared soil from drainage channel near headwall (Photos 2 and 3).
Concrete drainage channel between perimeter fence and headwall	Structural condition is acceptable; some minor surficial cracks. Drainage channel free of debris (Photo 4).	No corrective action required.
Concrete drainage channel between perimeter fence and remedial cap	Structural condition is acceptable; some minor surficial cracks. New concrete remains in good condition (Photos 5 and 6).	No corrective action required.
Perimeter drainage channel surrounding cap	Structural condition is acceptable; some minor surficial cracks (Photos 7 and 8).	No corrective action required.
Collection area around MTA footing	Structural condition is acceptable; drainage area free of tenant debris; no vegetation growing in collection area; storage containers located on each side of MTA footing (Photos 9 and 10).	No corrective action required.
Asphalt cap	Structural condition of cap is acceptable; concrete and asphalt patches installed to address surficial cracking remain in good condition (Photos 11 and 12). Some minor surficial cracks present.	No corrective action required.
Perimeter fence	The hinges on the gate separating the northeast and southwest properties failed (Photos 13 and 14). Breached sections and damage to the perimeter fence; multiple sections cut, pulled, and/or damaged by trespassers (Photos 17, 19, 21, and 23).	The gate separating the northeast and southwest properties was repaired (Photos 15 and 16). Sections of breached/damaged perimeter fence have been repaired (Photos 18, 20, 22, and 24).

ARCADIS

Figures

ARCADIS

Attachment A

Photographs



1: Headwall at concrete drainage channel (before)
Vegetation and debris present



2: Headwall at concrete drainage channel (after)
Vegetation and debris cleared from general area and drainage channel outlet



3: Headwall at concrete drainage channel (after)
Vegetation and debris cleared from general area and drainage channel outlet



4: Concrete drainage channel between perimeter fence and headwall (present)
In good condition and free of debris



5: Concrete drainage channel between cap and perimeter fence (present)
Minor surficial cracking present



6: Concrete drainage channel between cap and perimeter fence (present)
Concrete remains in good condition



7: Concrete drainage channel surrounding cap (present)
Minor surficial cracking present



8: Concrete drainage channel surrounding cap (present)
Minor surficial cracking present



9: Collection and drainage area around MTA footing (present)
Drainage channel free of tenant debris



10: Collection and drainage area around MTA footing (present)
Drainage channel free of tenant debris



11: Area near entry gate (present)
Concrete patch installed in 2009 to address surficial cracks in high traffic area
Some minor surficial cracking noted



12: Area near entry gate (present)
Asphalt patches installed in 2009 to address other surficial cracks in high traffic area
Some minor surficial cracking noted



13: Gate between northeast and southwest properties (before)
Hinges failed rendering one side of the gate useless and lacking support



14: Gate between northeast and southwest properties (before)
Hinges failed rendering one side of the gate useless and lacking support



15: Gate between northeast and southwest properties (after)
Hinges repaired and gate is properly supported and fully operational



16: Gate between northeast and southwest properties (after)
Hinges repaired and gate is properly supported and fully operational



17: Perimeter fence (before)



18: Perimeter fence (after)



19: Perimeter fence (before)



20: Perimeter fence (after)



21: Perimeter fence (before)



22: Perimeter fence (after)



23: Perimeter fence (before)



24: Perimeter fence (after)



25: Onsite debris (before)



26: Onsite debris (before)



27: Onsite debris (after)
Debris removed



28: Onsite debris (after)
Other debris also removed



29: Onsite vegetation (before)



30: Onsite vegetation (after)
Vegetation removed and road is clear for vehicle use

SDMS # 31294

AR00003

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 9

In the Matter of :

H. KRAMER AND COMPANY
1 CHAPMAN WAY
EL SEGUNDO, CALIFORNIA,

H. KRAMER AND COMPANY AND
AERO INDUSTRIES,

Respondents

Proceeding under Section 106 of the
Comprehensive Environmental Response,
Compensation and Liability Act of 1980,
as amended by the Superfund Amendments
and Reauthorization Act of 1986,
(42 U.S.C. §9606)

19
Order No. 88-19

I. Jurisdiction

This Order is issued to H. Kramer and Company and Aero Industries pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, by authority delegated to the Administrator of the United States Environmental Protection Agency (EPA), and redelegated to the EPA Regions. This Order is also issued pursuant to the Bankruptcy Code, 11 U.S.C.A. Section 362(b)(4).

The Director of the Toxics and Waste Management Division, EPA Region 9, has determined that there may be an imminent and substantial endangerment to the public health, welfare or the environment because of the release and threatened release of

1 hazardous substances from the H. Kramer and Company facility at 1
2 Chapman Way, El Segundo, California.

3 II. Findings of Fact

4 A. Background - H. Kramer and Company

5 1. The facility, (known as "the Property"), is an abandoned
6 secondary metals smelting operation located at 1 Chapman Way, El
7 Segundo, California.

8 2. The facility currently consists of several buildings,
9 smelting furnaces, a slag pile, baghouse ash, furnace ash, drums,
10 cooling pond water/sludge and scrap metal/debris. EPA's On-Scene
11 Coordinator and Technical Assistance Team contractor, Ecology and
12 Environment, Inc., collected samples at the facility on March 14,
13 1988 for testing. Generally, the samples contained excessive
14 levels of copper, lead and zinc. High concentrations of beryl-
15 lium and cadmium were also detected in some of the samples. The
16 sample data is summarized in Exhibit I.

17 3. Respondent H. Kramer and Company ("Kramer") filed a
18 Petition for Reorganization under Chapter 11 of the Bankruptcy
19 Code in December, 1985 in the United States Bankruptcy Court for
20 the Northern District of Illinois, Eastern Division [In the Mat-
21 ter of H. Kramer & Co., an Illinois corporation, I.D. #36-1340270
22 (No. 85 B 16687 Honorable Eugene R. Wedoff, presiding)].

23 4. Respondent Aero Industries ("Aero") has entered into a
24 contract with Kramer wherein Aero will raze, dismantle and remove
25 most of the buildings and equipment at the Property at no cost to
26 Kramer. This contract has been approved by an Order of the
27 Bankruptcy Court on March 14, 1988.

28 ///

1 5. Respondent Aero Industries has indicated an intent to
2 purchase the property and mitigate the threat to human health and
3 the environment posed by hazardous materials located on or
4 beneath the site.

5 6. The EPA has designated an On-Scene Coordinator ("OSC")
6 for the facility, pursuant to 40 C.F.R. Part 300.

7 **B. Endangerment**

8 7. Population at risk. The site poses a risk to workers
9 conducting security and demolition activities on-site and to per-
10 sons off-site in the vicinity of the site. Personnel
11 conducting site security and cleanup activities may be exposed to
12 contaminants in surface soil and at other areas of the site such
13 as ash storage piles or drum storage areas. Personnel conducting
14 demolition activities may generate significant quantities of
15 fugitive dust emissions, thereby posing a threat to on-site
16 workers and persons in the vicinity of the site. Heavy equipment
17 utilized at the site may track significant quantities of hazard-
18 ous materials off-site. An office building at the site is being
19 used by demolition personnel, thereby posing a threat to workers
20 in this building. Prior to the fencing of the site, the public
21 had access to the site as evidenced by the presence of bicycle
22 tracks, footprints and graffiti. Contaminants in the surface
23 soils and storage areas at the site may pose a threat to
24 groundwater beneath the site.

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1 8. Substances of concern. Lead, zinc, copper, beryllium
2 and cadmium were detected at the site at levels of concern. Many
3 of the samples collected and analyzed by EPA exceeded the Total
4 Threshold Limit Concentrations (TTLIC), which establish threshold
5 levels for the regulation of hazardous wastes in California
6 [Title 22, Cal. Adm. Code, Section 66693 et. seq.].

7 a. Lead. Lead poisoning is one of the most commonly
8 reported occupational diseases. Some lead compounds are car-
9 cinogens of the lungs and kidneys. Exposure pathways include
10 both ingestion and inhalation. Upon inhalation, absorption takes
11 place through the respiratory tract and symptoms tend to develop
12 more quickly than from ingestion. Lead is a cumulative poison.
13 Increasing amounts build up in the body to a point where symptoms
14 and disability occur. Lead produces a brittleness of the red
15 blood cells, sensitizing them to trauma. Lesions of the kidney,
16 liver, male glands, nervous system, blood vessels, and other
17 tissues have been observed.

18 b. Copper. Inhalation of copper dust has caused hemolysis
19 of red blood cells in animal experiments. Copper chloride and
20 sulfate have been reported as causing irritation of the skin and
21 conjunctivae. Cuprous oxide is an eye and upper respiratory
22 tract irritant.

23 c. Beryllium. Beryllium and its compounds are considered
24 to be experimental carcinogens, tumorigens, and neoplastigens.
25 Inhalation of dust containing beryllium can cause severe lung
26 damage. Effects have been reported in persons living near
27 processing plants and families of beryllium workers.

28 ///

1 d. Cadmium. Cadmium is a poison to humans. Exposure oc-
2 curs by inhalation and other routes. Inhalation of fumes or
3 dusts affects the respiratory tract and the kidneys. Cadmium has
4 been found to be a teratogen and an experimental carcinogen.

5 e. Zinc. Zinc compounds exhibit varying toxicities.
6 Workers in zinc refining have been reported as suffering from a
7 variety of non-specific intestinal, respiratory and nervous
8 symptoms. Ulceration of the nasal septum and eczematous der-
9 matosis are also reported.

10 III. Conclusions of Law

11 A. H. Kramer and Company and Aero are "persons" as defined
12 in Section 101(21) of CERCLA, 42 U.S.C. §9601(21).

13 B. The property located at 1 Chapman Way is a "facility" as
14 defined in Section 101(9) of CERCLA, 42 U.S.C. §9601(9).

15 C. Lead, zinc, copper, beryllium and cadmium are "hazardous
16 substances" as defined in Section 101(14) of CERCLA, 42 U.S.C.
17 §9601(14).

18 D. The presence of hazardous substances on and in the soils
19 at the site and the potential for those substances to become air-
20 borne or for the hazardous substances to migrate to groundwater
21 constitutes a "release" or "threatened release" of hazardous sub-
22 stances into the environment as defined in Section 101(22) of
23 CERCLA, 42 U.S.C. §9601(22).

24 E. H. Kramer and Company is a "responsible party" as
25 defined in Section 107(a)(3) of CERCLA, 42 U.S.C. §9607(a)(3).

26 ///

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28 ///

1 B. Within seven (7) calendar days of the effective date of
2 this Order, Kramer shall submit to EPA a written proposal for the
3 razing, demolition and salvaging of buildings, equipment and
4 materials at the facility which shall include the following ele-
5 ments.

- 6 1. Scope of work.
- 7 2. List of equipment and materials to be salvaged
8 and their locations.
- 9 3. A site diagram or map designating and identifying
10 areas where work will be conducted.
- 11 4. A schedule of daily activities.
- 12 5. A description of procedures that will be used
13 to disassemble, dismantle, demolish or otherwise
14 salvage items listed in (2) above.
- 15 6. A description of decontamination procedures for
16 the items in (2) above for the purpose of
17 limiting human exposure to hazardous substances.
- 18 7. A proposal for dust suppression during on-site
19 activities.
- 20 8. A proposal for the cleanup of hazardous substances
21 that pose a threat of airborne release to the
22 environment.
- 23 9. A site safety plan.

24 C. Upon approval of the proposal by EPA, Kramer and Aero
25 may conduct razing, demolition or salvaging activities at the
26 site if such activities are in full compliance with the approved
27 proposal.

28 ///

1 D. Within thirty (30) calendar days of the effective date
2 of this Order, Kramer shall submit to EPA a written proposal with
3 a schedule for a site assessment and for the removal, treatment
4 and/or disposal of hazardous substances from the site.

5 E. Within seven (7) days of EPA approval of the proposal,
6 Kramer shall begin implementation of the proposal. Kramer shall
7 fully implement the proposal as approved by EPA within the time
8 period set forth in the schedule.

9 VI. Compliance With Other Laws

10 Respondents shall comply with all federal, state and local
11 laws and regulations in carrying out the terms of this Order. All
12 hazardous substances removed from the facility must be handled in
13 accordance with the Resource Conservation and Recovery Act of
14 1976, 42 U.S.C. § 6921, et seq., the regulations promulgated un-
15 der that Act and Section 121(d)(3) of CERCLA, 42 U.S.C. Section
16 9621(d)(3).

17 VII. On-Scene Coordinator

18 EPA has appointed an On-Scene Coordinator (OSC) for the Site
19 who has the authority vested in the On-Scene Coordinator by 40
20 C.F.R. Part 300, et seq. The On-Scene Coordinator for the
21 property at 1 Chapman Way, El Segundo, California for the pur-
22 poses of this Order is:

23 Dan Shane
24 United States Environmental Protection Agency
25 Region 9
26 215 Fremont Street
27 San Francisco, California 94105
28 (415) 974-8361

26 ///

27 ///

28 ///

1 VIII. Submittals

2 All submittals and notifications to EPA required by
3 this Order or any approved proposal under this Order shall be
4 made to:

5 Jeff Zelikson
6 Director, Toxics and Waste Management Division
7 United States Environmental Protection Agency
8 Region 9
9 215 Fremont Street
10 San Francisco, California 94105

11 Copies of all submittals and notifications shall be sent to
12 the On-Scene Coordinator.

13 All approvals and decisions of EPA made regarding the sub-
14 mittals and modifications shall be communicated to Respondents by
15 the Director, Toxics Waste and Management Division or his
16 designee. No informal advice, guidance, suggestions, or comments
17 by EPA regarding reports, plans, specifications, schedules, or
18 any other matter will relieve Respondents of their obligation to
19 obtain formal approvals as required by this Order.

20 IX. Access

21 Respondents shall provide EPA employees and other represen-
22 tatives with complete access to the facility at all times. Noth-
23 ing in this Order limits any access rights that EPA or other
24 agencies may have pursuant to law.

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1 public health, welfare, or the environment.

2 XIII. Opportunity to Confer

3 Respondents may request a conference with the Director,
4 Toxics and Waste Management Division, EPA Region 9, or his staff
5 to discuss the provisions of this Order. At any conference held
6 pursuant to Respondents request, Respondents may appear in person
7 or by counsel or other representatives for the purpose of
8 presenting any objections, defenses or contentions which Respon-
9 dents may have regarding this Order. If Respondents desire such
10 a conference, Respondents must make a request orally within 24
11 hours of receipt of this Order, and confirm the request in writ-
12 ing immediately.

13 XIV. Parties Bound

14 This Order shall apply to and is binding upon the Respon-
15 dents, their officers, directors, agents, employees, contractors,
16 successors, and assigns.

17 XV. Notice of Intent to Comply

18 Within 24 hours of receipt of this Order, Respondents shall
19 orally inform EPA of their intent to comply with the terms of
20 this Order. The oral notice shall be confirmed within two (2)
21 days by written notice to the Director. Failure to timely notify
22 EPA of the Respondents' intent to fully comply will be construed
23 by EPA as a refusal to comply.

24 XVI. Notice to State

25 Notice of the issuance of this Order has been given to the
26 State of California. EPA will consult with the California
27 Department of Health Services, as appropriate.

28 ///

XVII. Effective Date

Notwithstanding any conferences requested pursuant to the provisions of this Order, this Order is effective on the date of execution by the Director, Toxics and Waste Management Division, EPA Region 9.

IT IS SO ORDERED on this 7th day of June, 1988.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

by: 

Jeff Zelikson
Director, Toxics and Waste Management Division
EPA, Region 9

Contacts:

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Field Operations Branch, T-3-3
U.S. Environmental Protection Agency
215 Fremont Street
San Francisco, CA 94105
(415) 974-8361

Marcia Preston
Assistant Regional Counsel
Office of Regional Counsel
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215 Fremont Street
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(415) 974-7232

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Exhibit I

Sample Collection Summary
H. Kramer and Company

Sample ID

Sample Location

D-1	Surface composite of drainage area; southeast corner of slag pile
S-1	Surface composite of slag pile; collected from four compass points of slag pile
P-1	Grab sample from an excavated area near the west end of slag pile; approximately four feet below surface
C-1	Composite sample of soil around metal crusher located in northeastern most building
B-1	Grab sample collected from beneath the eastern baghouse dust silo
F-1	Composite sample of material beneath furnace located at the northwest corner of property
SP-1	Composite sample of cooling pond sludge; collected from northeast corner of eastern cooling pond

1
2
3 **Results of Sample Analysis**
4 **H. Kramer and Company**

5

SAMPLE ID	BERYLLIUM	CADMIUM	COPPER	LEAD	ZINC
D-1	114*	-	21,200	2,900	99,800
6 S-1	178	-	13,600	3,060	137,000
P-1	283	-	8,450	1,600	90,800
7 C-1	-	-	119,000	48,800	27,200
B-1	-	909	8,900	43,500	473,000
8 F-1	-	-	130,000	11,600	96,600
SP-1	-	-	-	2,490	15,700
9					
TTL**					
10 LIMIT	75	100	2,500	1,000	5,000

11 * All values in mg/kg

12 ** Total Threshold Limit Concentration (TTL)

13 - Sample analysis results less than TTL

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